

SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU

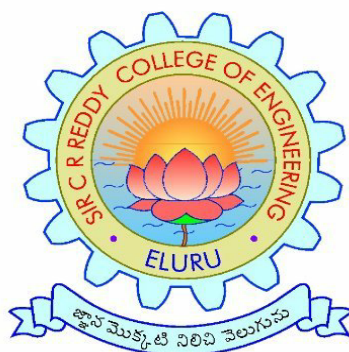
Approved by AICTE, New Delhi & permanently affiliated to ANDHRA UNIVERSITY

(Affiliated to JNTU Kakinada from the AY 2017-2018)

Vatluru, Post Peddapadu Mandal, Near Bypass Road

West Godavari District, Eluru- 5340047, Andhra Pradesh

DEPARTMENT OF INFORMATION TECHNOLOGY



III/IV B.TECH II SEMESTER

Regulation :: R16

Web Technologies Lab manual

EXPERIMENT-1

AIM Design the following static web pages required for an online book store web site.

HOME PAGE The static home page must contain three frames. Top frame: Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).

PROGRAM

Wt.html

```
<!DOCTYPE html>
<html>
<head>
<title>wt</title>
</head>
<frameset rows="25%,*">
<frame src="top.html" name="top">
  <frameset cols="30%,*">
    <frame src="bottomleft.html" name="bottomleft">
    <frame src="bottomright.html" name="bottomright">
  </frameset>
</frameset>
</html>
```

Bottomleft.html

```
<!DOCTYPE html>
<html>
<head>
<title>wt</title>
</head>
<body>
IT<br>
CSE<br>
ECE<br>
EEE<br>
MECH<br>
MBA<br>
</body>
</html>
```

Bottomright.html

```
<!DOCTYPE html>
<html>
<head>
<title>wt</title>
</head>
<body>
```

Mission:

<p>To emerge as a premier institution in the field of technical education and research in the state and as a home for holistic development of students and contribute to the advancement of society and the region.</p>

MISSION OF SIRC R REDDY COLLEGE OF ENGINEERING

<p>M1. To provide high quality technical education through a creative balance of technical academic and industry-oriented learning;

M2. To create an inspiring environment of scholarship and research;

M3. To instill high levels of academic and professional discipline;

M4. To establish standards that inculcate ethical and moral values that contributes to growth in career and development of society in general

</p>

VISION OF THE DEPARTMENT

<p>To be a premier department in the region in the field of Information Technology through

academic excellence and research that enable graduates to meet the challenges of industry and society.

MISSION OF THE DEPARTMENT

M1: Provide dynamic teaching-learning environment to make the students industry ready and advancement in career.

M2: Inculcate professional and leadership quality for better employability and entrepreneurship

M3: Make high quality professional with moral and ethical values suitable for industry and society.

Top.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>wt</title>
```

```
</head>
```

```
<body>
```

```
<center>
```

```
<h1>SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU</h1></center>
```

```
<table align="center" summary="BookCart" cellpadding="5" border="2">
```

```
<tr>
```

```
<th width="200">Home</th><th width="200">Login</th><th width="200">Register</th><th
```

```
width="200">Catalogue</th><th width="200">Cart</th>
```

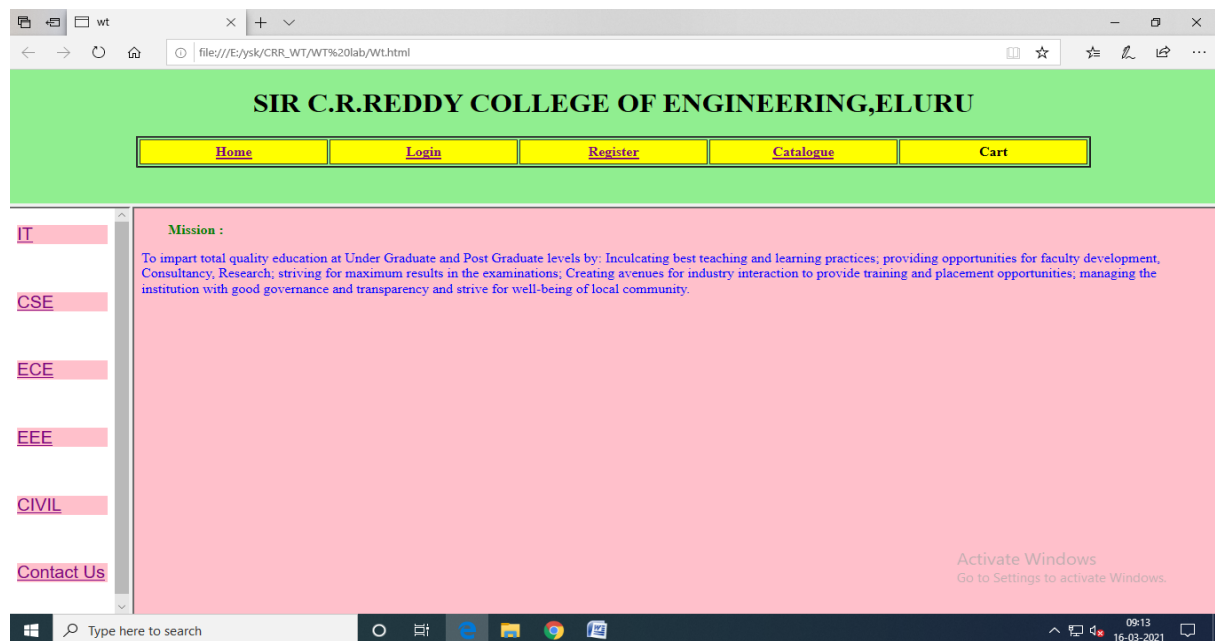
```
</tr>
```

```
</table>
```

```
</body>
```

```
</html>
```

Output:



EXPERIMENT-2

AIM LOGIN PAGE

PROGRAM

Top.html

```
<!DOCTYPE html>
<html>
<head>
<title>wt</title>
</head>
<body>
<center>
<h1>SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU</h1></center>
<table align="center" summary="BookCart" cellpadding="5" border="2">
<tr>
<th width="200"><a href="Top.html" target="bottomright">Home </a></th>
<th width="200"><a href="login.html" target="bottomright">Login</a></th>
<th width="200">Register</th>
<th width="200">Catalogue</th>
<th width="200">Cart</th>
</tr>
</table>
</body>
</html>
```

Login.html

```
<!DOCTYPE html>
<html>
<head>
<title>login.html</title>
</head>
<body>
<h1><center>Login to CRRE BookStore</h1>
<table align="center">
<tr>
<td>
Login</td>
<td><input id="login" name="login" type="text" /></td></tr>
<tr>
<td>Password</td>
<td><input id="password" name="password" type="password" /></td></tr>
<tr>
<td><input type="submit" /></td>
<td><input type="reset" /></td></tr>
</body>
</html>
```

Output:



EXPERIMENT-3

AIM CATALOGUE PAGE The catalogue page should contain the details of all the books available in the web site in a table.

PROGRAM

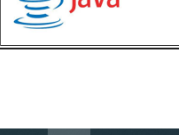
Top.html

```
<!DOCTYPE html>
<html>
<head>
<title>wt</title>
</head>
<body>
<center>
<h1>SIR C.R.REDDY COLLEGE OF ENGINEERING:Eluru</h1></center>
<table align="center" summary="BookCart" cellpadding="5" border="2">
<tr>
<th width="200"><a href="bottomright.html" target="bottomright">Home </a></th>
<th width="200"><a href="login.html" target="bottomright">Login</a></th>
<th width="200">Register</th>
<th width="200"><a href="Catalogue">a href="Catalogue</a></th>
<th width="200">Cart</th>
</tr>
</table>
</body>
</html>
```

Catalogue.html

```
<!DOCTYPE html>
<html>
<head>
<title>catalogue</title>
</head>
<body>
<table summary="books" border="2" cellpadding="2" align="center">
<tr>
<td><input type="checkbox" value="c"/></td>
<td></td>
<td width="200">Book C<br>Author: Rajesh<br>Publisher: Pearson</td>
<td>$10</td>
<td width="200"><input type="submit" value="add to cart"/></td>
</tr>
<tr>
<td><input type="checkbox" value="cplusplus"/></td>
<td></td>
<td width="200">Book C++<br>Author: Kiran<br>Publisher: Cengage</td>
<td>$15</td>
<td width="200"><input type="submit" value="add to cart"/></td>
</tr>
<tr>
<td><input type="checkbox" value="java"/></td>
<td></td>
<td width="200">Book java<br>Author: sumita<br>Publisher: TMH</td>
<td>$20</td>
<td width="200"><input type="submit" value="add to cart"/></td>
</tr>
</table>
</body>
</html>
```

Output:

☐		Book: C Author: Rajesh Publisher: Pearson	\$10	add to cart
☐		Book: C++ Author: Kiran Publisher: Cengage	\$15	add to cart
☐		Book: java Author: sumita Publisher: TMH	\$20	add to cart

Activate Windows
Go to Settings to activate Windows.

EXPERIMENT-4

AIM REGISTRATION PAGE Create a "registration form"

PROGRAM

Registration.html

```

<!DOCTYPE html>
<html>
<head>
<title>Registration</title>
</head>
<body>
<form name="registration" target="bottomright" action="registrationDB.php" method="get" >
<table summary="Registration" align="center" cellpadding="5" border="2">
  <caption>Registration Page</caption>
  <tr>
    <td>Name</td> <td><input type="text" name="name"/></td>
  </tr>
  <tr>
    <td>Password</td> <td><input type="password" name="password"/></td>
  </tr>
  <tr>
    <td>E_Mail</td> <td><input type="text" name="email"/></td>
  </tr>
  <tr>
    <td>Phone</td> <td><input type="text" name="phone"/></td>
  </tr>
  <tr>
    <td>Sex</td> <td><input type="radio" name="sex" value="male"/>Male<br><input type="radio"
name="sex" value="female"/>Female</td>
  </tr>
  <tr>
    <td>DateOf Birth</td> <td>
      <select name="day">
        <option value="" selected>Day</option>
        <option value="1">1</option>
        <option value="2">2</option>
        <option value="3">3</option>
        <option value="4">4</option>
        <option value="5">5</option>
        <option value="6">6</option>
        <option value="7">7</option>
        <option value="8">8</option>
        <option value="9">9</option>
        <option value="10">10</option>
      </select>
      <select name="month">
        <option value="" selected>Month</option>
        <option value="jan">jan</option>
        <option value="feb">feb</option>
        <option value="mar">mar</option>
      </select>
      <select name="year">
        <option value="" selected>Year</option>
        <option value="1994">1994</option>
        <option value="1995">1995</option>
        <option value="1996">1996</option>
      </select>
    </td>
  </tr>
  <tr>
    <td>LanguagesKnown</td> <td>
      <input type="checkbox" name="language" value="english">English
    </td>
  </tr>
</form>

```

```

<br>
<input type="checkbox" name="language" value="telugu">Telugu
<br>
<input type="checkbox" name="language" value="hindi">Hindi
<br>
<input type="checkbox" name="language" value="tamil">Tamil
<br>
</td>
</tr>
<tr>
<td>Address</td><td><textarea name="address" type="text" rows="1" cols="100" >Enter
Address</td>
</tr>
<tr>
<td><input type="submit"/></td><td><input type="reset"/></td>
</tr>
</table>
</form>
</body>
</html>

```

Output:

The screenshot shows a web browser window with the title "SIR C.R. REDDY COLLEGE OF ENGINEERING, ELURU". The browser address bar shows the file path: file:///E:/ysk/CRR_WT/WT%20lab/WT.html. The page has a green header with the college name and a yellow navigation bar with links: Home, Login, Register, Catalogue, and Cart. On the left, there is a vertical menu with links: IT, CSE, ECE, EEE, CIVIL, and Contact Us. The main content area is a registration form with the following fields and options:

- Name: Text input field
- Password: Text input field
- E-Mail: Text input field
- Phone: Text input field
- Sex: Radio buttons for Male and Female
- DateOfBirth: Three dropdown menus for Day, Month, and Year
- LanguagesKnown: Checkboxes for English, Telugu, Hindi, and Tamil
- Address: Text input field with placeholder "Enter Address"
- Buttons: "Submit Query" and "Reset"

At the bottom right of the form, there is a watermark: "Activate Windows. Go to Settings to activate Windows." The Windows taskbar at the bottom shows the date and time: 09:14, 16-03-2021.

EXPERIMENT-5

AIM DESIGN A WEB PAGE USING CSS (Cascading Style Sheets)PROGRAMBottomleft.html

```

<!DOCTYPE html>
<html>
<head>
<title>wt</title>
<style type="text/css">
  p.courses{
    color:red;
    font-family: sans-serif;
    font-size: 18pt;
    text-decoration:underline;
  }
</style>

</head>
<body>
  <p class="courses">B.Tech</p><br>
  <p class="courses">M.Tech</p><br>
  <p class="courses">MBA</p><br>
</body>
</html>

```

Bottomright.html

```

<!DOCTYPE html>
<html>
<head>
<title>wt</title>
<style type="text/css">
  Body{
    background-color: linen;
  }
  .bodytxt{
    font-family:serif;
    font-size: 18;
    color:green;
  }
</style>

```

```

</head>
<body>
<p style="color:blue;margin-left:30px;font-family:times;font-size:20;"><b>Mission :</b></p>
<p class="bodytxt"><span>

```

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M3: Make high quality professional with moral and ethical values suitable for industry and society.

</p>

</body>

</html>

Registration.html

<!DOCTYPE html>

<html>

<head>

<title>Registration</title>

<style type="text/css">

table,th,td {

border: 2px solid navy;

}

</style>

</head>

<body>

<form name="registration" target="bottomright" action="registrationDB.php" method="get" >

<table summary="Registration" align="center" cellpadding="5" border="2">

<caption>Registration Page</caption>

<tr>

<td>Name</td><td><input type="text" name="name"/></td>

</tr>

<tr>

<td>Password</td><td><input type="password" name="password"/></td>

</tr>

<tr>

<td>E-Mail</td><td><input type="text" name="email"/></td>

</tr>

<tr>

<td>Phone</td><td><input type="text" name="phone"/></td>

</tr>

<tr>

<td>Sex</td><td><input type="radio" name="sex" value="male"/>Male
<input type="radio" name="sex" value="female"/>Female</td>

</tr>

<tr>

<td>DateOf Birth</td><td>

<select name="day">

<option value="" selected>Day</option>

<option value="1">1</option>

<option value="2">2</option>

<option value="3">3</option>

<option value="4">4</option>

<option value="5">5</option>

<option value="6">6</option>

<option value="7">7</option>

<option value="8">8</option>

<option value="9">9</option>

<option value="10">10</option>

</select>

<select name="month">

<option value="" selected>Month</option>

<option value="jan">Jan</option>

<option value="feb">Feb</option>

<option value="mar">Mar</option>

</select>

<select name="year">

<option value="" selected>Year</option>

<option value="1994">1994</option>

<option value="1995">1995</option>

```

<option value="1996">1996</option>
</select>
</td>
</tr>
<tr>
<td>LanguagesKnown</td> <td>
<input type="checkbox" name="language" value="english">English
<br>
<input type="checkbox" name="language" value="telugu">Telugu
<br>
<input type="checkbox" name="language" value="hindi">Hindi
<br>
<input type="checkbox" name="language" value="tamil">Tamil
<br>
</td>
</tr>
<tr>
<td>Address</td> <td><textarea name="address" type="text" rows="1" cols="100" >Enter
Address</textarea>
</td>
</tr>
<tr>
<td><input type="submit"/></td> <td><input type="reset"/></td>
</tr>
</table>
</form>
</body>
</html>

```

Output:

SIR C.R. REDDY COLLEGE OF ENGINEERING, ELURU

[Home](#) [Login](#) [Register](#) [Catalogue](#) [Cart](#)

[IT](#) [CSE](#) [ECE](#) [EEE](#) [CIVIL](#) [Contact Us](#)

Registration Page

Name	
Password	
E-Mail	
Phone	
Sex	☐ Male ☐ Female
DateOfBirth	Day Month Year
LanguagesKnown	☐ English ☐ Telugu ☐ Hindi ☐ Tamil
Address	Enter Address
Submit Query Reset	

AIM: REGISTRATION PAGE: Create a "registration form and validate the page using JavaScript

PROGRAM

Registration.html

```

<!DOCTYPE html>
<html>
<head>
<title>registration</title>
<script language="j avascript">
function validate(f)
{
var name=document.forms[0].name.value;
var password=document.forms[0].password.value;
var x = document.forms[0].email.value;
var a = document.forms[0].phone.value;
    var atpos = x.indexOf("@");
    var dotpos = x.lastIndexOf(".");
    if (name.length == 0) {
        alert("You must enter a username.");
        return false;
    }
        if(name.length < 6){
            alert("You must enter minimum 6 characters");
            return false;
        }

        if (password.length == 0) {
            alert("You must enter a password.");
            return false;
        }
            if(password.length < 6){
                alert("You must enter minimum 6 characters");
                return false;
            }

        if (atpos<1|| dotpos<atpos+2|| dotpos+2>=x.length) {
            alert("Not a valid e-mail address");
            return false;
        }
            if(a == ""){
                alert("You must enter a phone number.");
                return false;
            }
                if(isNaN(a)){
                    alert("Invalid Phone Number");
                    return false;
                }
                    if( a.length < 10){
                        alert("Phone number should be minimum 10 digits");
                        return false;
                    }
                        return true;
                    }
}
</script>
</head>
<body>
<form name="registration" target="bottomright" action="registrationDB.jsp" method="get"
onsubmit="return validate(this);">
<table summary="Registration" align="center" cellpadding="5" border="2">
<tr>
    <td>Name</td> <td><input type="text" name="name"/></td>
</tr>
<tr>
    <td>Password</td> <td><input type="password" name="password"/></td>
</tr>
<tr>
    <td>E_Mail</td> <td><input type="text" name="email"/></td>
</tr>

```

```

<tr>
  <td>Phone</td> <td><input type="text" name="phone"/></td>
</tr>
<tr>
  <td>Sex</td> <td><input type="radio" name="sex" value="male"/>Male<br><input type="radio"
name="sex" value="female"/>Female</td>

</tr>
<tr>
  <td>DateOfBirth</td> <td>
    <select name="day">
      <option value="" selected>Day</option>
      <option value="1">1</option>
      <option value="2">2</option>
      <option value="3">3</option>
      <option value="4">4</option>
      <option value="5">5</option>
      <option value="6">6</option>
      <option value="7">7</option>
      <option value="8">8</option>
      <option value="9">9</option>
      <option value="10">10</option>

    </select>
    <select name="month">
      <option value="" selected>Month</option>
      <option value="jan">jan</option>
      <option value="feb">feb</option>
      <option value="mar">mar</option>
    </select>
    <select name="year">
      <option value="" selected>Year</option>
      <option value="1994">1994</option>
      <option value="1995">1995</option>
      <option value="1996">1996</option>
    </select>
  </td>
</tr>
<tr>
  <td>LanguagesKnown</td> <td>
    <input type="checkbox" name="language" value="english">English
    <br>
    <input type="checkbox" name="language" value="telugu">Telugu
    <br>
    <input type="checkbox" name="language" value="hindi">Hindi
    <br>
    <input type="checkbox" name="language" value="tamil">Tamil
    <br>

  </td>
</tr>
<tr>
  <td>Address</td> <td><textarea name="address" type="text" rows="1" cols="100" >Enter
Address</textarea>
  </td>
</tr>
<tr>
  <td><input type="submit"/></td> <td><input type="reset"/></td>
</tr>
</table>
</form>
</body>
</html>

```

Output:

SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

Home Login Register Catalogue Cart

IT

CSE

ECE

EEE

CIVIL

Contact Us

Name

Password

E-Mail

Phone

Sex

DateOfBirth

LanguagesKnown

Address

Submit Query

Reset

This site says...

You must enter a username.

OK

Activate Windows
Go to Settings to activate Windows.

EXPERIMENT-6

AIM WRITE AN XML file which will display the Book information and Write a Document Type Definition (DTD) to validate the above XML file

PROGRAM

book.dtd

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT catalogue (book+)>
<!ELEMENT book (title,author,isbn,publisher,edition,price)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT isbn (#PCDATA)>
<!ELEMENT publisher (#PCDATA)>
<!ELEMENT edition (#PCDATA)>
<!ELEMENT price (#PCDATA)>
```

catalogue.xsl

```
<?xml version="1.0" encoding="UTF-8" ?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:output method="html"/>
  <xsl:template match="/">
    <html>
      <head>
        <title>catalogue.xsl</title>
      </head>
      <body>
        <h2 align="center">CRRE BOOK Collection</h2>
        <table border="1">
          <tr bgcolor="#9acd32">
            <th>Title</th>
            <th>Author</th>
            <th>Isbn</th>
            <th>Publisher</th>
            <th>Edition</th>
            <th>Price</th>
          </tr>
          <xsl:for-each select="catalogue/book">
            <tr>
              <td><xsl:value-of select="title"/></td>
              <td><xsl:value-of select="author"/></td>
              <td><xsl:value-of select="isbn"/></td>
              <td><xsl:value-of select="publisher"/></td>
              <td><xsl:value-of select="edition"/></td>
              <td><xsl:value-of select="price"/></td>
            </tr>
          </xsl:for-each>
        </table>
      </body>
    </html>
  </xsl:template>
</xsl:stylesheet>
```

btechbooks.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="catalogue.xsl"?>
<!DOCTYPE CATALOGUE SYSTEM "book.dtd">
<catalogue>
  <book>
    <title>XML Developer's Guide</title>
    <author>Garbar della, Matthew</author>
    <isbn>234</isbn>
    <publisher>engage</publisher>
    <edition>2</edition>
    <price>50</price>
  </book>
  <book>
    <title>C</title>
    <author>Matthew</author>
    <isbn>235</isbn>
    <publisher>pearson</publisher>
```

```
<edition>3</edition>
<price>100</price>
</book>
</catalogue>
```

mbabooks.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="catalogue.xsl"?>
<!DOCTYPE CATALOGUE SYSTEM "book.dtd">
<catalogue>
  <book>
    <title>MEFA</title>
    <author>ROY</author>
    <isbn>3579</isbn>
    <publisher>pearson</publisher>
    <edition>5th</edition>
    <price>500</price>
  </book>
  <book>
    <title>IPR</title>
    <author>MAC</author>
    <isbn>2468</isbn>
    <publisher>NTGATT</publisher>
    <edition>2nd</edition>
    <price>500</price>
  </book>
</catalogue>
```

mtech.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="catalogue.xsl"?>
<!DOCTYPE CATALOGUE SYSTEM "book.dtd">
<catalogue>
  <book>
    <title>OO</title>
    <author>Y N SINGH</author>
    <isbn>56-287</isbn>
    <publisher>professional</publisher>
    <edition>3rd</edition>
    <price>400</price>
  </book>
  <book>
    <title>OO</title>
    <author>Dennis Ritchie</author>
    <isbn>584-627</isbn>
    <publisher>Pearson</publisher>
    <edition>2nd</edition>
    <price>550</price>
  </book>
</catalogue>
```

Output:

SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

[Home](#) [Login](#) [Register](#) [Catalogue](#) [Cart](#)

SIR C.R.REDDY BOOK Collection

Title	Author	Isbn	Publisher	Edition	Price
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C	Matthew	235	pearson	3	100

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Title	Author	Isbn	Publisher	Edition	Price
CO	Y N SINGH	56-287	professional	3rd	400
CC	Dennis Ritchie	584-627	Pearson	2nd	550

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EXPERIMENT-7

AIM Write Ruby program reads a number and calculates the factorial value of it and prints the same

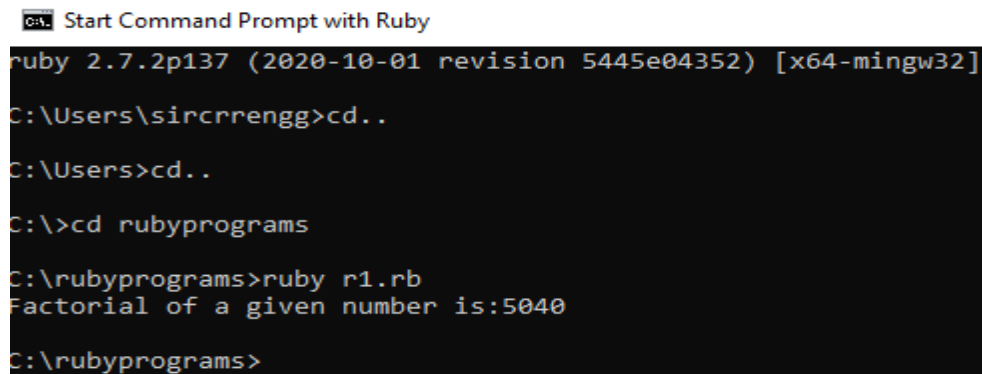
PROGRAM

```
num=7
```

```
fact=(1..num).inject(1) {|a, b| a * b}
```

```
puts "Factorial of a given number is" + fact.to_s
```

Output:



```
C:\> Start Command Prompt with Ruby
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r1.rb
Factorial of a given number is:5040
C:\rubyprograms>
```

EXPERIMENT-8

AIM Write a Ruby program which counts number of lines in a text files using its regular Expressions facility.

PROGRAM

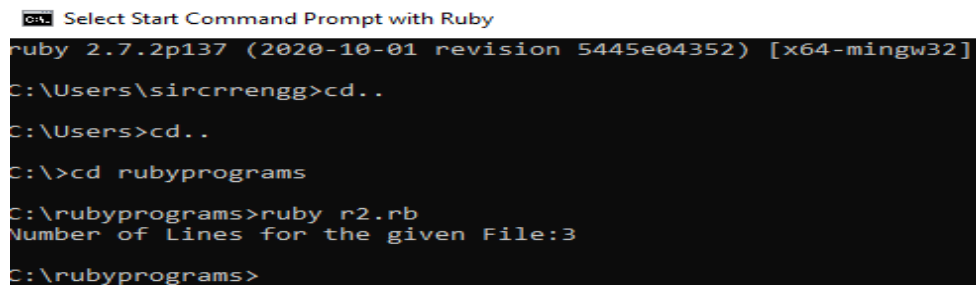
```
count =0
```

```
filename = 'eocet.txt'
```

```
File.open(filename) {|f| count = f.read.count("\n")}
```

```
puts "Number of Lines for the given File:" + count.to_s
```

Output:



```
C:\> Select Start Command Prompt with Ruby
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r2.rb
Number of Lines for the given File:3
C:\rubyprograms>
```

EXPERIMENT-9

AIM Write a Ruby program that uses iterator to find out the length of a string

PROGRAM

```
count =0

input = 'abcdefghijklmnopqrstuvwxyz'

input.each_char { |c|

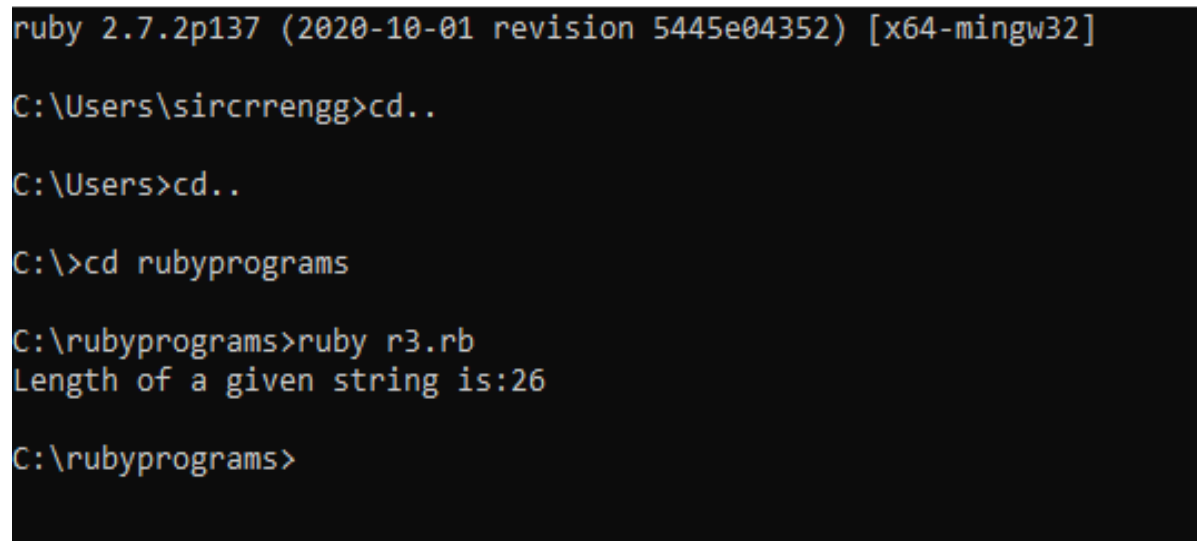
  count=count+1

}

puts "Length of a given string is "+count.to_s
```

Output:

 Start Command Prompt with Ruby



```
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]

C:\Users\sircrrengg>cd..

C:\Users>cd..

C:\>cd rubyprograms

C:\rubyprograms>ruby r3.rb
Length of a given string is:26

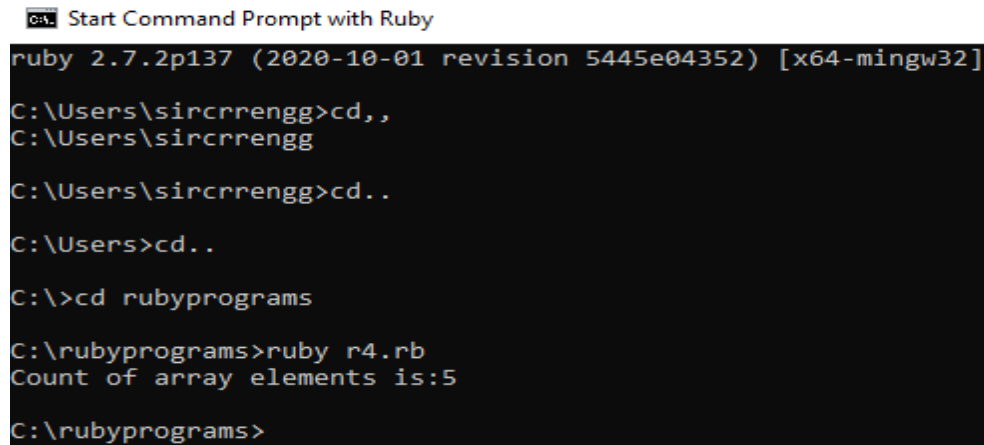
C:\rubyprograms>
```

EXPERIMENT-10

AIM Write simple Ruby programs that uses arrays in Ruby

PROGRAM

```
nums=[1, 2, 3, 4, 5]
count=0
numseach do |num|
  count=count+1
end
puts "Count of array elements is "+count.to_s
```

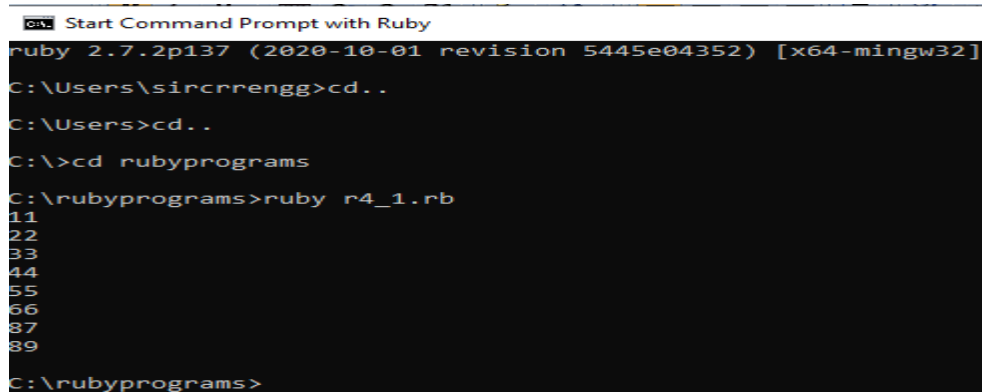
Output:

```
Start Command Prompt with Ruby
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd,,
C:\Users\sircrrrengg
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r4.rb
Count of array elements is:5
C:\rubyprograms>
```

AIM Write simple Ruby programs that uses arrays in Ruby

PROGRAM

```
nums = Array.new
numspush 11
numspush 22
numspush 33
numspush 44
numspush 55
numspush 66
numspush 87
numspush 89
puts nums
```

Output:

```
Start Command Prompt with Ruby
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r4_1.rb
11
22
33
44
55
66
87
89
C:\rubyprograms>
```

EXPERIMENT-11

AIM Write programs which uses associative arrays concept of Ruby.

PROGRAM

```
myDict = { "hello" => 13,
           "world" => 31,
           "!"  => 71 }

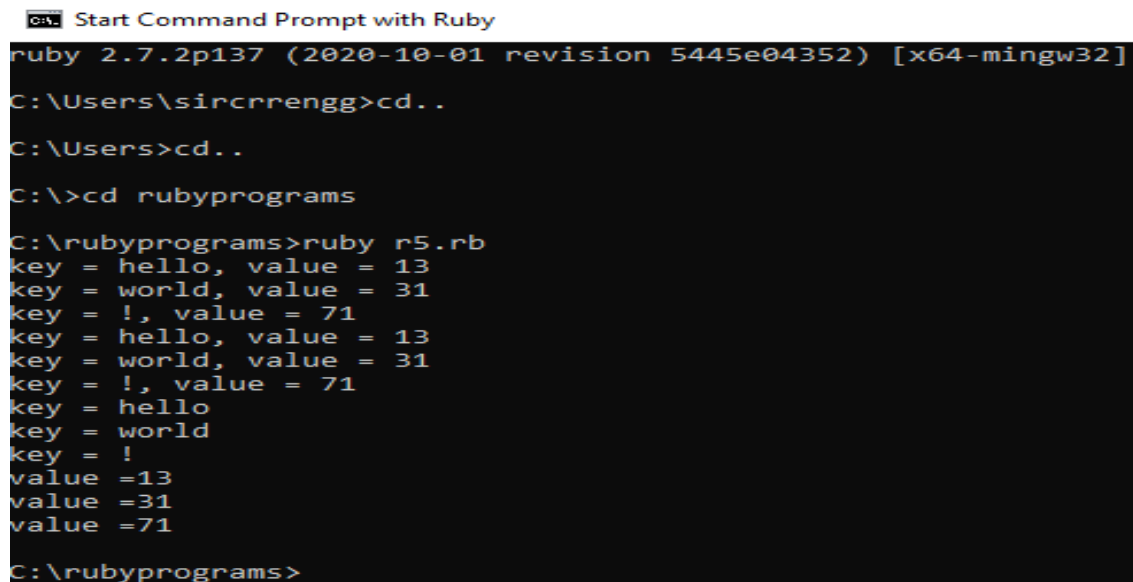
# iterating over key-value pairs
myDict.each {|key, value| puts "key = #{key}, value = #{value}"}

# or
myDict.each_pair {|key, value| puts "key = #{key}, value = #{value}"}

# iterating over keys
myDict.each_key {|key| puts "key = #{key}"}

# iterating over values
myDict.each_value {|value| puts "value = #{value}"}
```

Output:



```
C:\> Start Command Prompt with Ruby
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r5.rb
key = hello, value = 13
key = world, value = 31
key = !, value = 71
key = hello, value = 13
key = world, value = 31
key = !, value = 71
key = hello
key = world
key = !
value =13
value =31
value =71
C:\rubyprograms>
```

EXPERIMENT-12

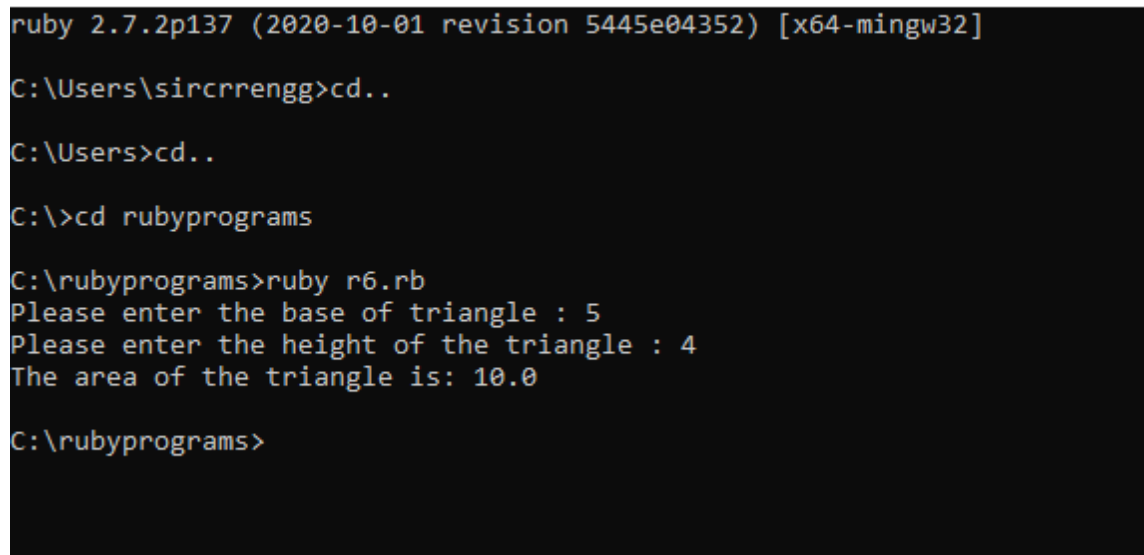
AIM Write Ruby program which uses Math module to find area of a triangle.

PROGRAM

```
class Triangle
#Initialize our class variable
  @@count = 0
  @base
  @height
  #Constructor with class method using @@
  #This constructor will create all the variables used by the Triangle class
  def initialize(b,h)
    @base = b
    @height = h
    #class variable defined below with @@
    @@count += 1
  end
  #instance method Will calculate area of triangle
  def getArea
    (@base * @height)/2
  end
  def self.printCount()
    puts "Triangle count is: #{@@count}"
  end
  print "Please enter the base of triangle: "
  bs = gets.chomp.to_f
  print "Please enter the height of the triangle: "
  ht = gets.chomp.to_f
  #New Object triangle1 being created which will take variables from questions
  #And plug them into class Triangle getArea method
  triangle1 = Triangle.new(bs, ht)
  #Call to instance method
  AreaOfTriangle = triangle1.getArea()
  puts "The area of the triangle is: #{AreaOfTriangle}"
end
```

Output:

 Start Command Prompt with Ruby



```
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r6.rb
Please enter the base of triangle : 5
Please enter the height of the triangle : 4
The area of the triangle is: 10.0
C:\rubyprograms>
```

EXPERIMENT-13

AIM Write Ruby program which uses tk module to display a window

PROGRAM

```
require 'tk'
root = TkRoot.new{ title "Hello, World!" }
TkLabel.new(root) do
  text 'Hello, World!'
  pack { padx 15; pady 15; side 'left' }
end
Tk.mainloop
```

Output:**EXPERIMENT-14**

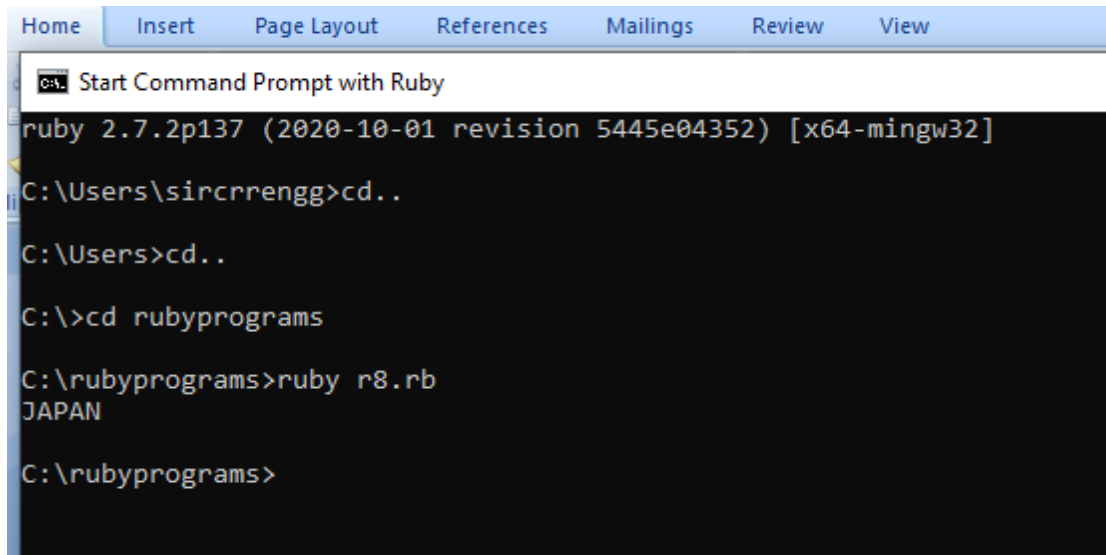
AIM Define complex class in Ruby and do write methods to carry operations on complex objects

PROGRAM

```
class Navigator
  def initialize(location)
    @location = location
  end
  def location()
    update()
    @location
    puts @location
  end
  def update()
    @location = @location.upcase()
  end
  public :location
  private :update
end

# Create new class instance and call location public method.
n = Navigator.new("j apan")
n.location()
```

Output:



```
C:\> Start Command Prompt with Ruby
ruby 2.7.2p137 (2020-10-01 revision 5445e04352) [x64-mingw32]
C:\Users\sircrrrengg>cd..
C:\Users>cd..
C:\>cd rubyprograms
C:\rubyprograms>ruby r8.rb
JAPAN
C:\rubyprograms>
```

EXPERIMENT-15

AIM Write a program which illustrates the use of associative arrays in perl.

PROGRAM

```
%ages = ('kiran'=>19,'vij ay'=>21,'raj u'=>20);
print "Original Array:\n";
print "===== \n";
while (($key) = each %ages)
{
    print " $key is $ages{$key} years old\n ";
}
$ages{'mayur'} = 24;
print "\nAfter adding element:\n";
print "===== \n";
while (($key) = each %ages)
{
    print " $key is $ages{$key} years old\n ";
}
delete( $ages{'vij ay'});
print "\nAfter deleting element:\n";
print "===== \n";
@all_keys = keys(%ages);
print "Keys are: @all_keys\n";
@all_values = values(%ages);
print "Values are: @all_values";
```

Output:

```

:: Perl (command line)
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\sircrrrengg\Documents>cd..

C:\Users\sircrrrengg>cd..

C:\Users>cd..

C:\>cd perlprograms

C:\perlprograms>perl -w p1.pl
Original Array:
=====
raju is 20 years old
kiran is 19 years old
vijay is 21 years old

After adding element:
=====
vijay is 21 years old
mayur is 24 years old
kiran is 19 years old
raju is 20 years old

After deleting element:
=====
Keys are: mayur kiran raju
Values are: 24 19 20
C:\perlprograms>

```

EXPERIMENT-16

AIM Write perl program takes set names along the command line and prints whether they are regular files or special files

PROGRAM

```

$len = @ARGV;
for ($i=0; $i<$len; $i++)
{
    if (-e $ARGV[$i])
    {
        if (-T $ARGV[$i])
        {
            print "$ARGV[$i] is a text file\n";
        }
        else
        {
            print "$ARGV[$i] is a special file\n";
        }
    }
    else
    {
        print "$ARGV[$i] does not exists";
    }
}

```

Output:

```
❖❖ Perl (command line)
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\sircrrengg\Documents>cd..

C:\Users\sircrrengg>cd..

C:\Users>cd..

C:\>cd perlprograms

C:\perlprograms>perl -w p2.pl sample.txt html.jpg dd.txt
sample.txt is a text file
html.jpg is a special file
dd.txt is a text file

C:\perlprograms>
```

EXPERIMENT-17

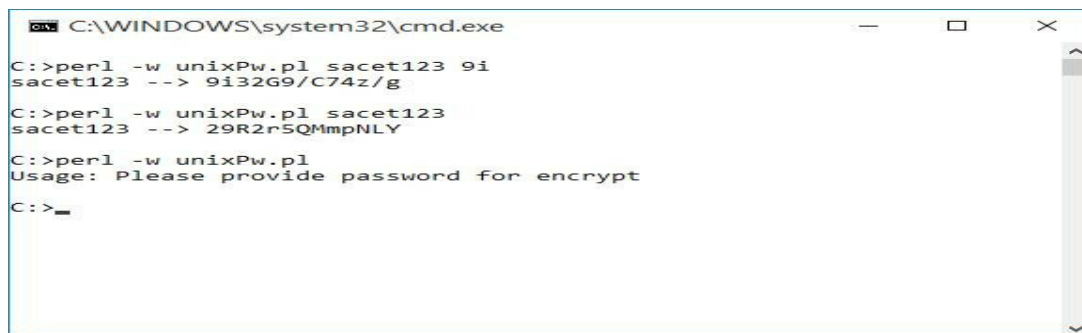
AIM Write a perl program to implement UNIX 'passwd' program

PROGRAM

```
my $salt="";
my $encrypted="";
my $password="";
my $use='Usage: Please provide password for encrypt';
my @saltchars=('.', '/', 0..9, 'A'..'Z', 'a'..'z');
my $args=@ARGV;
if ( $args<1|| $args>2)
{
    print "$use\n";
    exit;
}
$password=$ARGV[0];
if( $args==1)
{
}
else
{
}
$salt = join(" ",@saltchars[rand(64),rand(64)]);

$salt=$ARGV[1];
$encrypted=crypt($password,$salt);
print "$password--> $encrypted\n";
```

Output:



```

C:\WINDOWS\system32\cmd.exe

C:>perl -w unixPw.pl sacet123 9i
sacet123 --> 9i32G9/C74z/g

C:>perl -w unixPw.pl sacet123
sacet123 --> 29R2r5QMmpNLY

C:>perl -w unixPw.pl
Usage: Please provide password for encrypt
C:>_

```

EXPERIMENT-18

AIM An example perl program to connect to a MySQL database table and executing simple commands

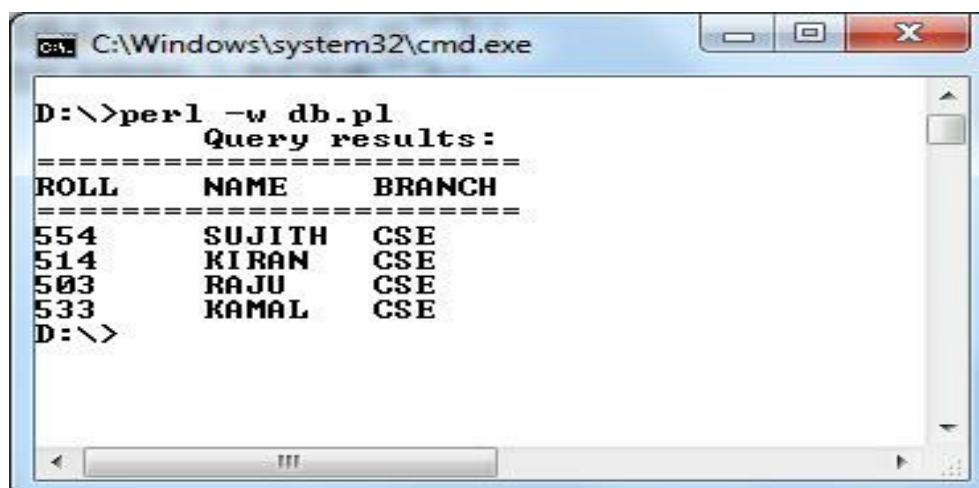
PROGRAM

```

use DBI;
#definition of variables
$db="test";
$host="localhost";
$user="root";
$password="";
#connect to MySQL database
my $dbh = DBI->connect ("DBI:mysql:database=$db:host=$host", $user, $password) or die "Can't connect
to
database: $DBI::errstr\n";
#prepare the query
my $sth = $dbh->prepare( "SELECT *FROM students");
#execute the query
$sth->execute();
## Retrieve the results of a row of data and print
print "\tQuery results\n=====\n";
print("\tROLL\tNAME\tBRANCH\n=====\n");
while (my @row = $sth->fetchrow_array())
{
print "@row\n";
}
warn "Problem in retrieving results", $sth->errstr(), "\n" if $sth->err();
exit;

```

Output:

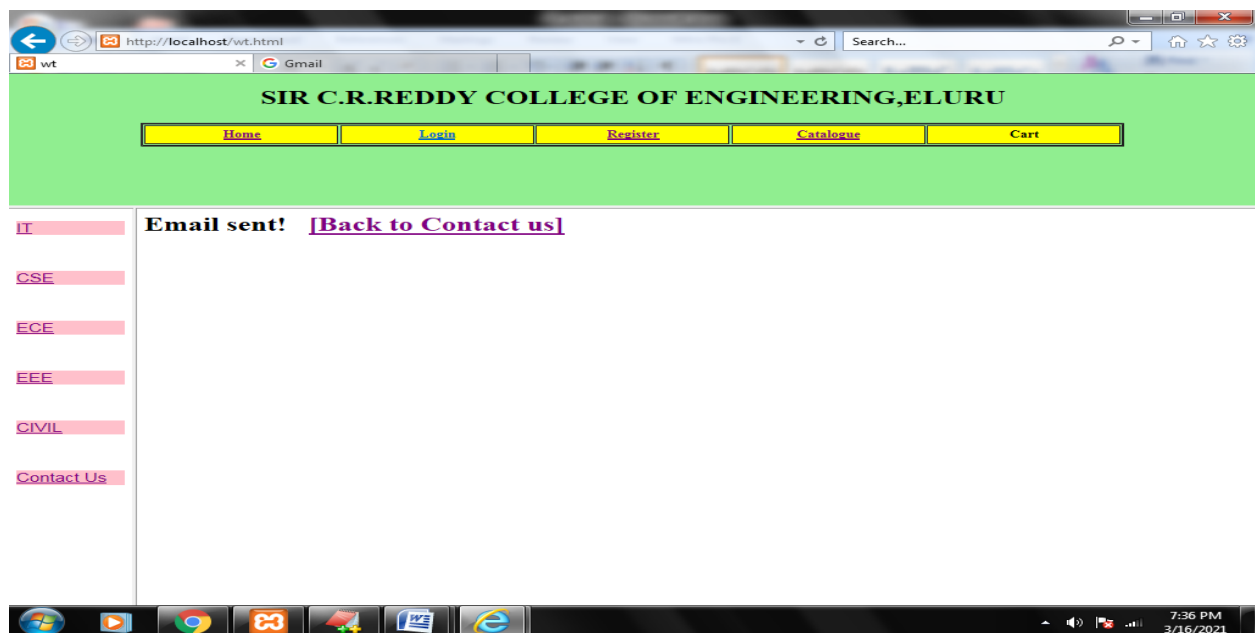
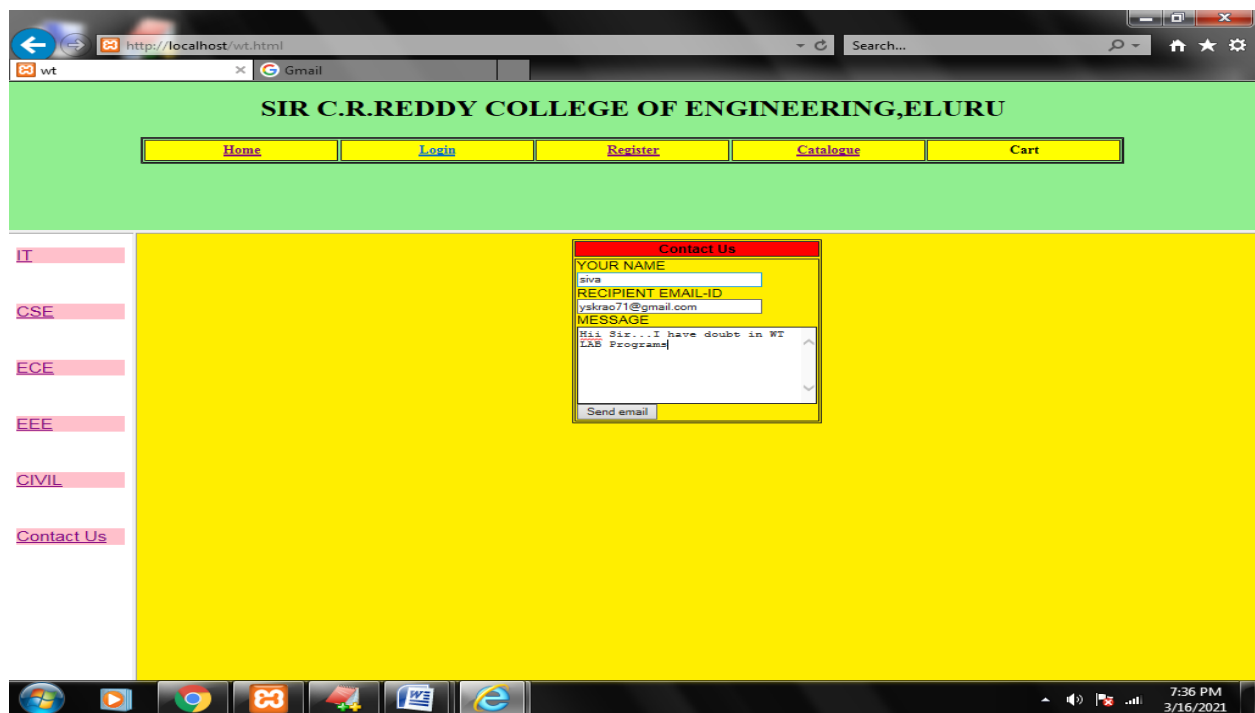


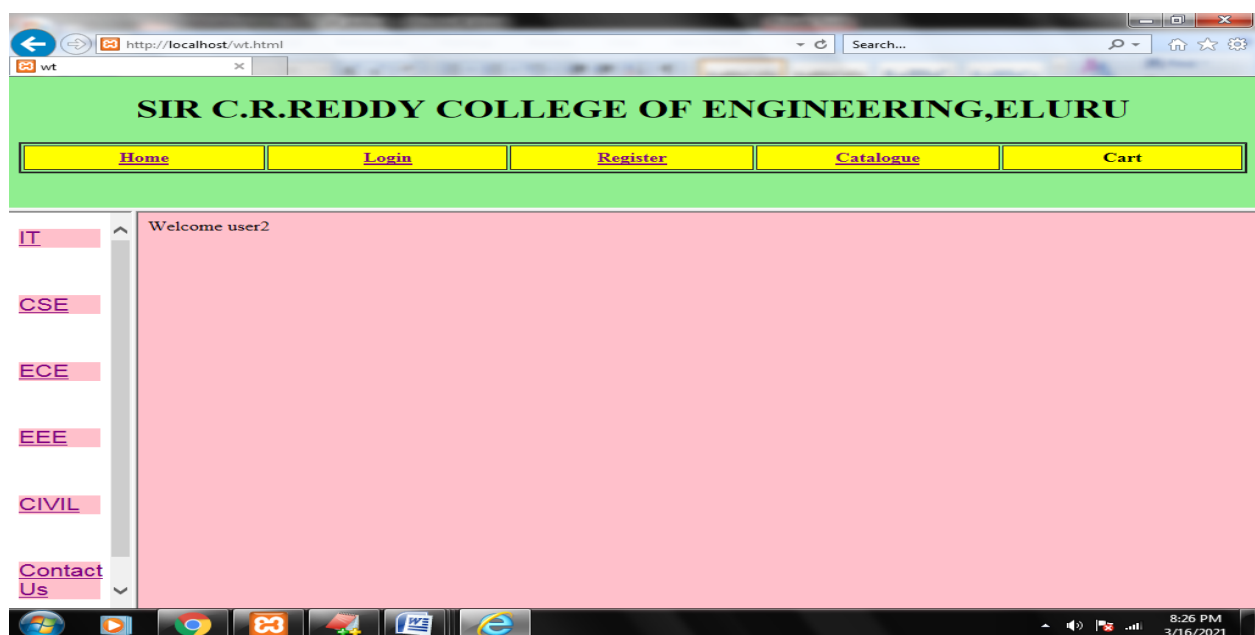
```

D:\>perl -w db.pl
Query results:
=====
ROLL      NAME      BRANCH
=====
554       SUJITH    CSE
514       KIRAN     CSE
503       RAJU      CSE
533       KAMAL     CSE
D:\>

```

EXPERIMENT-19





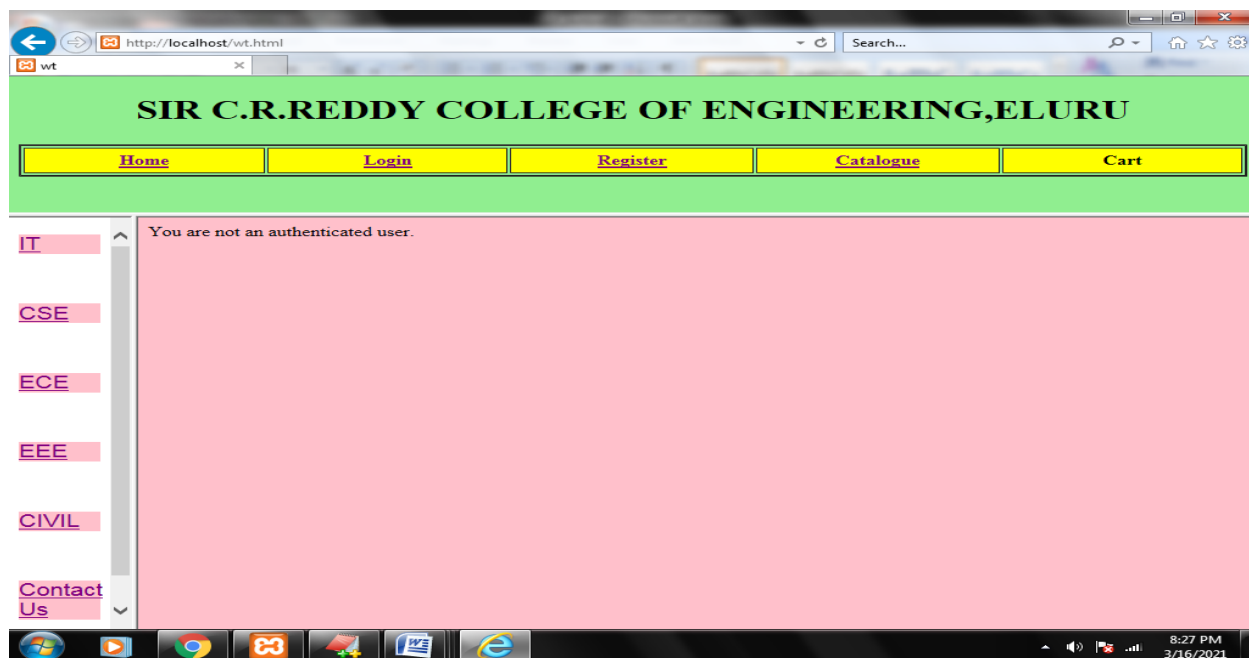
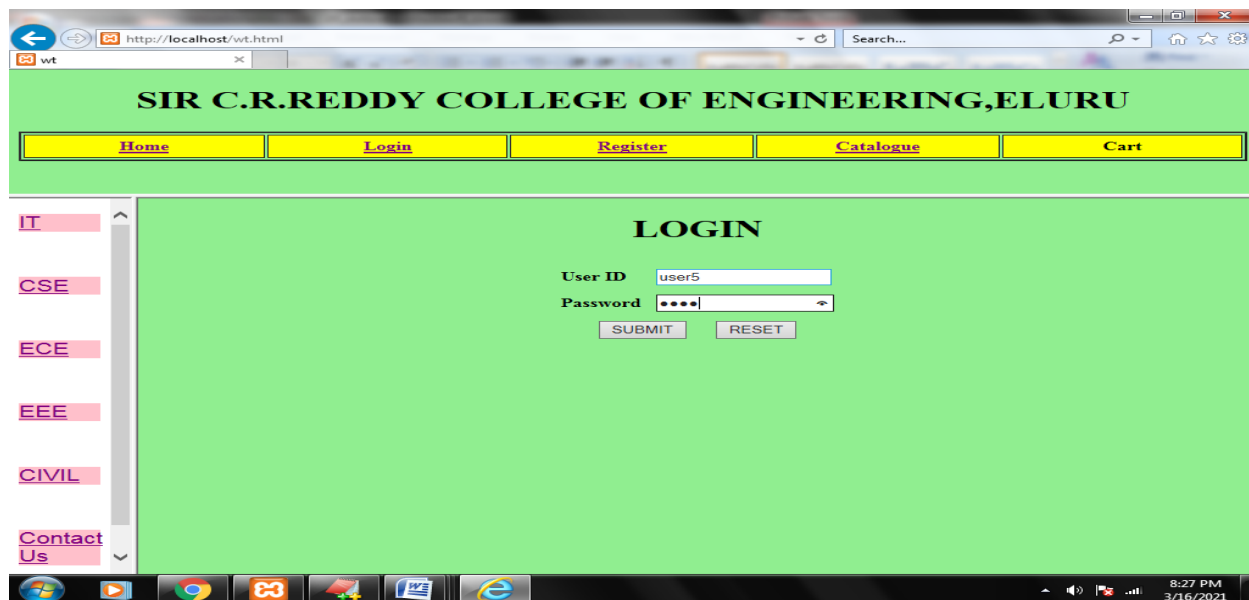
Authentication.php

```
<!DOCTYPE html>
<html>
<head>
<title>User Authentication</title>
</head>
<body bgcolor="pink">
<?php

if ($_POST["uid"]=$_COOKIE["uid1"] && $_POST["pwd"]=$_COOKIE["pwd1"])
{
    echo "Welcome ".$_POST["uid"];
}
else if ($_POST["uid"]=$_COOKIE["uid2"] && $_POST["pwd"]=$_COOKIE["pwd2"])
{
    echo "Welcome ".$_POST["uid"];
}
else if ($_POST["uid"]=$_COOKIE["uid3"] && $_POST["pwd"]=$_COOKIE["pwd3"])
{
    echo "Welcome ".$_POST["uid"];
}
else if ($_POST["uid"]=$_COOKIE["uid4"] && $_POST["pwd"]=$_COOKIE["pwd4"])
```

```
{
    echo "Welcome " . $_POST["uid"];
}
else{
    echo "You are not an authenticated user.";
}
?>
</body>
</html>
```

Output:



EXPERIMENT-21

AIM Example PHP program for registering users of a website and login

PROGRAM

Registration.html

```
<!DOCTYPE html>
<html>
<head>
<title>Signup</title>
</head>
<body bgcolor="palepink">
<form action="registrationaccess.php" method="post">
<h1 align="center" bgcolor="ffeeell"> REGISTRATION </h1>
<table align="center" cellpadding="10">
<tr>
<td>Name:</td>
<td><input name="uname" type="text"></td>
</tr>
<tr>
<td>Password:</td>
<td><input name="pwd" type="password"></td>
</tr>
<tr>
<td>E mail ID:</td>
<td><input name="email" type="text"></td>
</tr>
<tr>
<td>Mobile Number::</td>
<td><input name="mobno" type="text"></td>
</tr>
<tr>
<td colspan="2" align="center">
<input type="submit" value="Register">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
<input type="reset" value="Cancel"></td>
</tr>
</table>
</form>
</body>
</html>
```

registrationaccess.php

```
<?php
$username=$_POST["uname"];
$password=$_POST["pwd"];
$email=$_POST["email"];
$mobno=$_POST["mobno"];
$host="localhost";
$user="root";
$password="";
$conn=mysqli_connect($host,$user,$password);
if($conn){
    echo "<h1>Connected to MySQL</h1>";
    $db=mysqli_select_db($conn,"test");
}
else{
    echo "<h1>MySQL Server is not connected</h1>";
}
$query="insert into regs values('".$username."','".$password."','".$email."','".$mobno."')";
$insert=mysqli_query($conn,$query);
mysqli_close($conn);
if(!$insert){
```

```
echo '<script>alert("Registration Failed."); window.location.href="registration.html";</script>';  
}  
echo '<script>alert("Successfully registered."); window.location.href="login.html";</script>';  
?>
```

Output:

The screenshot shows the registration page of the SIR C.R. REDDY COLLEGE OF ENGINEERING, ELURU website. The page has a yellow header with the college logo and name. Below the header is a navigation bar with links: Home, Login, Register, Catalogue, and Cart. The main content area is green and titled "REGISTRATION". It contains a form with the following fields: Name (Yskrao), Password (masked with dots), E-mail ID (sivakoti71@gmail.com), and Mobile Number (9959951957). There are "Register" and "Cancel" buttons. A sidebar on the left lists various engineering disciplines: IT, CSE, ECE, EEE, CIVIL, and Contact Us. An "Activate Windows" watermark is visible in the bottom right corner.

The screenshot shows the login page of the SIR C.R. REDDY COLLEGE OF ENGINEERING, ELURU website. The page has a yellow header with the college logo and name. Below the header is a navigation bar with links: Home, Login, Register, Catalogue, and Cart. The main content area is white and titled "LOGIN". It contains a form with the following fields: Username (SIR) and Password (masked with dots). There is an "OK" button. A message "localhost says Successfully registered." is displayed above the "OK" button. A sidebar on the left lists various engineering disciplines: IT, CSE, ECE, EEE, CIVIL, and Contact Us. An "Activate Windows" watermark is visible in the bottom right corner.

The screenshot shows the phpMyAdmin web interface. The top navigation bar includes links for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers. A message at the top states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a green bar indicates "Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)". The SQL query editor shows the query: `SELECT * FROM `regs``. Below the query editor, there are checkboxes for "Show all" and "Filter rows: Search this table". The "Options" section shows the table structure with columns: **uname**, **pwd**, **email**, and **mobno**. The table data is as follows:

uname	pwd	email	mobno
siva	koti	ysk@gmail.com	9533614233
Y Siva Koteswara Rao	sivakoti	sivakoti71@gmail.com	9959951957

Below the table, there are checkboxes for "Show all" and "Filter rows: Search this table". The "Query results operations" section includes links for Print, Copy to clipboard, Export, Display chart, and Create view. The sidebar on the left shows the database tree with the following structure:

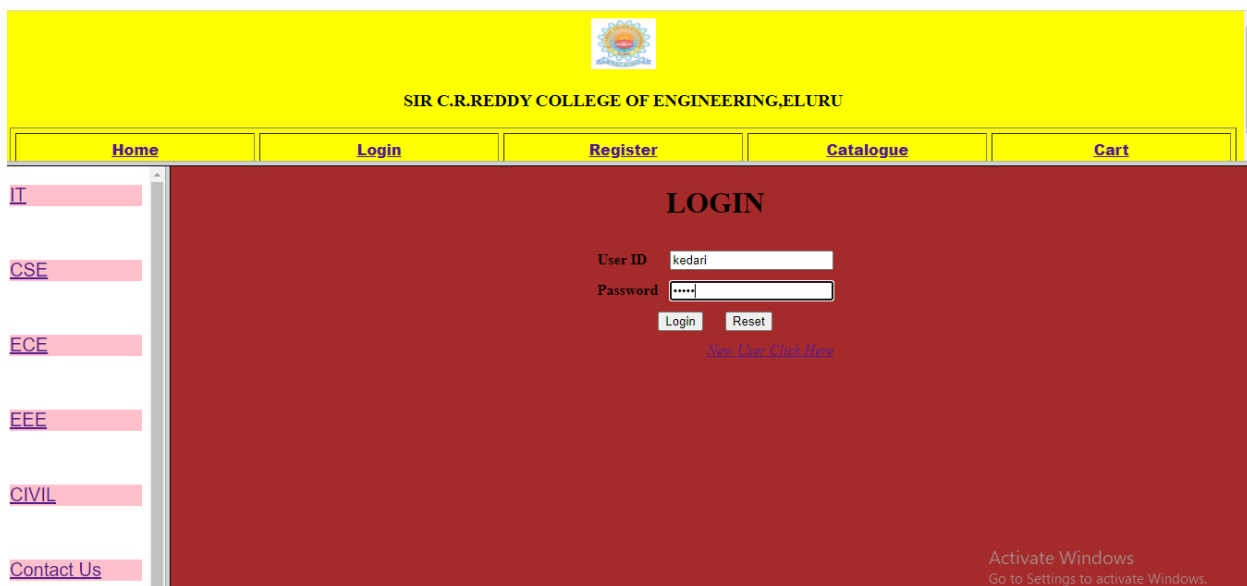
- New
- crldw
- crengg
- crrjw
- crpharm
- crpoly
- crpublic
- crpw
- crw1
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test
 - New
 - registration1
 - regs
 - students
 - testing

[illegible]

```

<tr>
<td colspan="2" align="right"><i><a href="registration.html">New User Click Here</a></i></td>
</tr>
</table>
</form>
</body>
</html>
loginaccess.php
<!DOCTYPE html>
<html>
<head>
<title>Welcome</title>
</head>
<body bgcolor="brown">
<?php
$uid=$_POST["uid"];
$pass=$_POST["pwd"];
$host="localhost";
$user="root";
$password="";
$conn=mysqli_connect($host,$user,$password);
if($conn){
    echo '<h1>Connected to MySQL</h1>';
    $db=mysqli_select_db($conn,"test");
}
else{
    echo '<h1>MySQL Server is not connected</h1>';
}
$sql="select * from regs";
$retrecs=mysqli_query($conn,$sql);
if (!$retrecs){
    printf("Error: %s\n", mysqli_error($conn));
    exit();
}
while ($rec=mysqli_fetch_array($retrecs)) {
    if ($rec["uname"]==$uid&& $rec["pwd"]==$pass) {
        $flag=1;
        break;
    }
}
mysqli_close($conn);
if($flag==1){
    echo "Welcome ".$uid;
}
else{
    echo '<script>alert("Invalid User ID/Password."); window.location.href="login1.html";</script>';
}
?>
</body>
</html>

```

Output:



SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

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[IT](#)
[CSE](#)
[ECE](#)
[EEE](#)
[CIVIL](#)
[Contact Us](#)

LOGIN

User ID

Password

[New User Click Here](#)

Activate Windows
Go to Settings to activate Windows.




SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

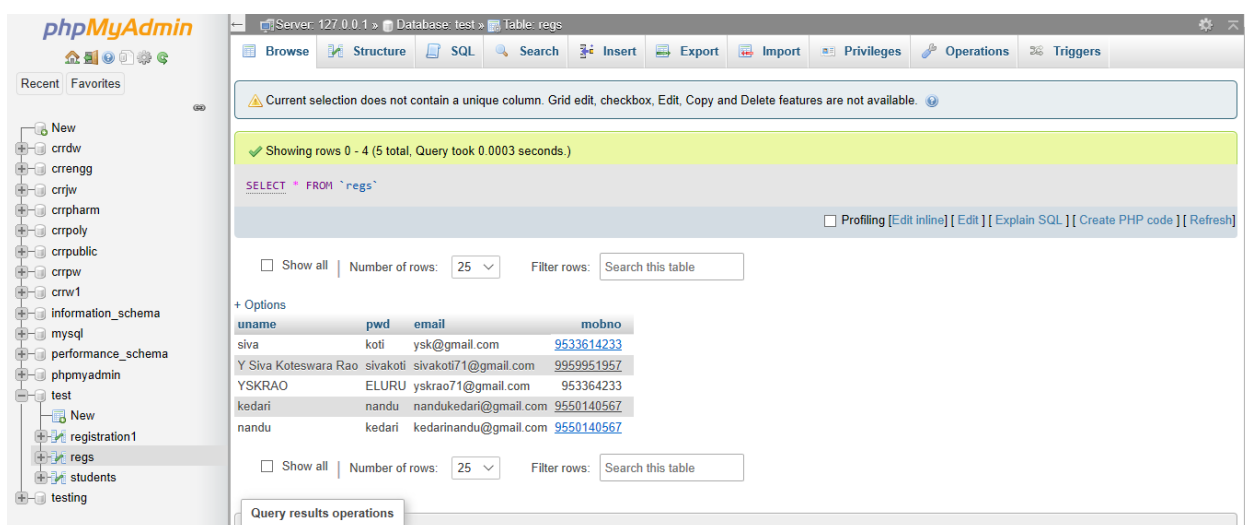
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[CSE](#)
[ECE](#)
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[CIVIL](#)
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Connected to MySQL

Welcome kedari

Activate Windows
Go to Settings to activate Windows.



Server: 127.0.0.1 » Database: test » Table: regs

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

SELECT * FROM `regs`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

uname	pwd	email	mobno
siva	koti	ysk@gmail.com	9533614233
Y Silva Koteswara Rao	sivakoti	sivakoti71@gmail.com	9959951957
YSKRAO	ELURU	yskrao71@gmail.com	953364233
kedari	nandu	nandukedari@gmail.com	9550140567
nandu	kedari	kedarinandu@gmail.com	9550140567

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

EXPERIMENT-22

AIM Install a database (Mysql or Orade). Create a table which should contain at least the following fields name, password, email-id, phone number (these should hold the data from the registration form). Write a PHP program to connect to that database and extract data from the tables and display them. Experiment with various SQL queries. Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page (week2).

PROGRAM

registration1.html

```
<html>
<head>
<title> User Registration Page</title>
<script language="javascript">
function validate()
{
var nam=document.f1.uname.value;
if(nam=="")
{
alert("Please enter name");
document.f1.uname.focus;
return false;
}
var pwd=document.f1.pass.value;
if(pwd=="")
{
alert("Please enter Password");
document.f1.pass.focus;
return false;
}
var email=document.f1.email.value;
if(email=="")
{
alert("Please enter your email");
document.f1.email.focus;
return false;
}
var phno=document.f1.phone.value;
len=phno.length
if(phno==" || len != 10)
{
alert("Please enter phno or should be strictly 10 digits");
document.f1.phone.focus;
return false;
}
}
</script>
</head>
<body bgcolor="pink">
<br/><br/><br/>
<center>
<form name="f1" action="insertdata22.php" method="post" onsubmit="javascript: return validate()">
<table border="3" cellpadding="0" cellspacing="0">
<tr>
<td>
<table cellpadding="10">
<tr>
<td colspan="2" align="center"><h2><u>User Registration Form</u></h2></td>
</tr>
<tr>
<td>User Name</td>
<td><input type="text" name="uname" size="50"></td>
```

```

</tr>
<tr>
<td> Password</td>
<td><input type="password" name="pass" size="50"></td>
</tr>
<tr>
<td> E-mail</td>
<td><input type="text" name="email" size="50"></td>
</tr>
<tr>
<td> Phone</td>
<td><input type="text" name="phone" size="15"></td>
</tr>
<tr>
<td colspan="2" align="center"><input type="submit" value="submit"></td>
</tr>
</table>
</td>
</tr>
</table>

```

```

</body>
</html>
</form>
</center>

```

insertdata22.php

```

<?php
$conn = mysql_connect("localhost","root","");
if($conn)
echo "Connected to database!!!";
else
echo "Failed to Connect:".mysql_error();
mysql_select_db("regusers",$conn) or die("No Database existing:".mysql_error());
if(isset($_REQUEST['uname']))
{
$username=$_REQUEST['uname'];
$password=$_REQUEST['pass'];
$email=$_REQUEST['email'];
$phone=(float)$_REQUEST['phone'];
$query = "INSERT INTO registration VALUES('$username','$password','$email','$phone')";
mysql_query($query);
$result = mysql_query("select * from registration");
?>
<html>
<body>
<br/><br/>
<p align="right"><a href="registration1.html">[Registration Page]</a></p>
<center>
<font face="verdana" size="4">
<table border="1" cellpadding="0" cellspacing="0">
<tr>
<th colspan="4" align="center">User List</th>
</tr>
<tr>
<th> S.No.</th>
<th> User Name</th>
<th> Email</th>
<th> Phone</th>
</tr>
<?php
$num=1;
while($row = mysql_fetch_array($result))
{ ?>
<tr>

```

```
<td>?php echo $num++; ?> </td>
<td>?php echo $row['uname']; ?> </td>
<td>?php echo $row['email']; ?> </td>
<td>?php echo $row['phno']; ?> </td>
</tr>
<?php }?>
</table>
</center>
</body>
</html>
<?php } ?>
```

Output:

The screenshot displays the website of Sir C.R.Reddy College of Engineering, Eluru. The header is yellow with the college logo and name. Below the header is a navigation bar with links: Home, Login, Register, Catalogue, and Cart. On the left side, there is a sidebar with links: IT, CSE, ECE, EEE, CIVIL, and Contact Us. The main content area is pink and features a 'User Registration Form' with the following fields: User Name (nandu), Password (masked with dots), E-mail (nandu@gmail.com), and Phone (9550140567). A 'submit' button is located at the bottom right of the form.



SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

[Home](#)
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[Catalogue](#)
[Cart](#)

IT

CSE

ECE

EEE

CIVIL

Contact Us

Connected to database!!!

[\[Registration Page\]](#)

User List			
S.No.	User Name	Email	Phone
1	kedari	kedari@gmail.com	9959951957
2	nandu	kedari@gmail.com	9959951957

phpMyAdmin

Server: 127.0.0.1 » Database: regusers » Table: registration

Showing rows 0 - 1 (2 total, Query took 0.0000 sec)

`SELECT * FROM `registration``

☐ Profiling [[Inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP Code](#)] [[Refresh](#)]

Number of rows: 25

Sort by key: None

+ Options

	uname	pass	email	phno
☐ Edit Copy Delete	kedari	nandu	kedari@gmail.com	9959951957
☐ Edit Copy Delete	nandu	kedari	kedari@gmail.com	9959951957

☐ Check All With selected: [Change](#) [Delete](#) [Export](#)

Number of rows: 25

Query results operations

[Print view](#) [Print view \(with full texts\)](#) [Export](#) [Display chart](#) [Create view](#)

[Bookmark this SQL query](#)

EXPERIMENT-23

AIM Write a PHP which does the following job: Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database (similar to week8 instead of cookies).

PROGRAM**Login2.html**

```

<html>
<head>
<title> Sign-in Page </title>
<script language="javascript">
function validate()
{
var nam=document.f1uname.value;
if(nam=="")
{
alert("Please enter name");
document.f1uname.focus;
return false;
}
var pwd = document.f1pass.value;
if(pwd=="")
{
alert("Please enter Password");
document.f1pass.focus;
return false;
}
}
</script>
</head>
<body bgcolor="pink">
<br/><br/><br/>
<center>
<form name="f1" action="validation23.php" method="post" onsubmit="javascript:return validate()">
<table border="3" cellpadding="0" cellspacing="0">
<tr>
<td>
<table cellspacing="10">
<tr>
<td colspan="2" align="center"><h2><u>Login Page</u></h2></td>
</tr>
<tr>
<td>User Name</td>
<td><input type="text" name="uname" size="15"></td>
</tr>
<tr>
<td>Password</td>
<td><input type="password" name="pass" size="15"></td>
</tr>
<tr>
<td colspan="2" align="center"><input type="submit" value="submit"></td>
</tr>
</table>
</td>
</tr>
</table>
</center>
</body>

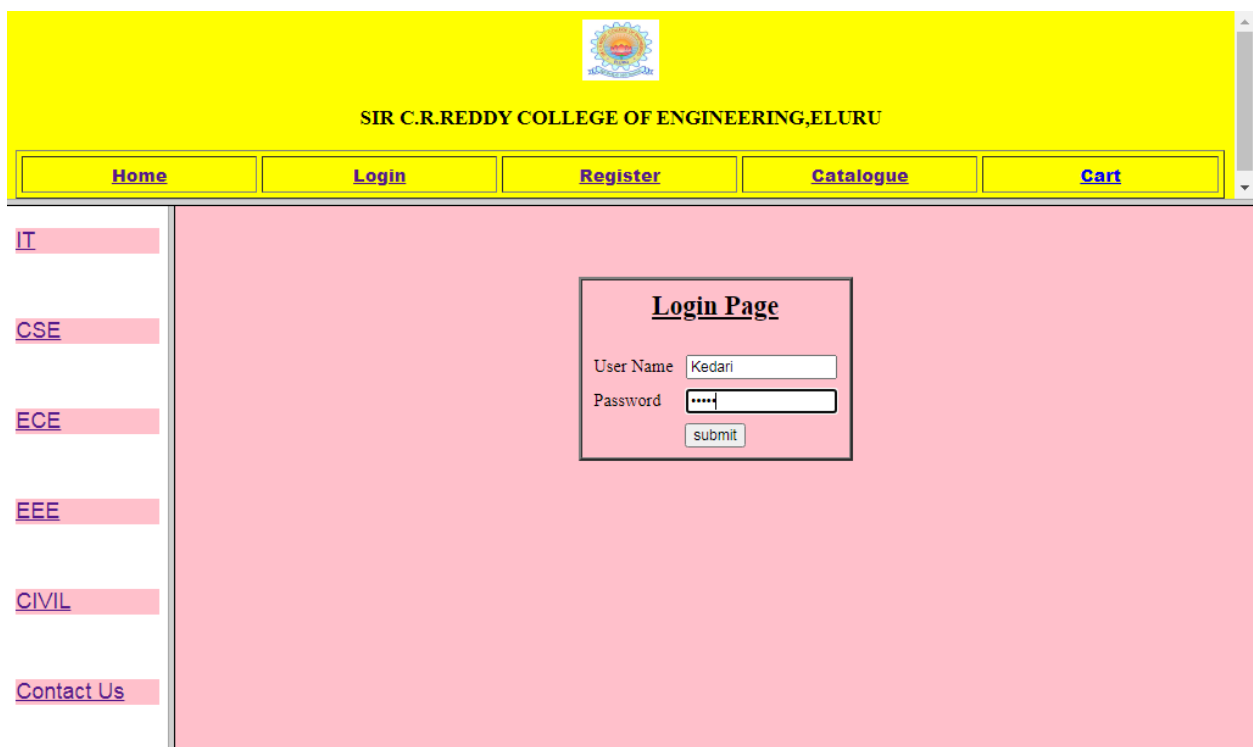
```

```

</html>
validation23.html
<html>
<body bgcolor="pink">
<?php
$conn = mysql_connect("localhost","root","");
if($conn)
echo "<h4>Connected to Database.... !!";
else
echo "Failed to Connect:".mysql_error()."</h4>";
mysql_select_db("regusers",$conn) or die("No Database existing:".mysql_error());
if(isset($_POST['uname']))
{
$username=$_POST['uname'];
$password=$_POST['pass'];
echo"<br/><br/><br/><p align=right><a href=Login2.html>[Login Page]</a></p>";
$res=mysql_query("select * from registration where uname='$username' and pass='$password'");
$count=mysql_num_rows($res);
if($count)
    echo "<br/><br/><br/><h2 align=center>Welcome $username!!!!</h2>";
else
echo "<br/><br/><br/><h2 align=center>Invalid Username/Password/Try again!!!!</h2>";
}
?>
</body>
</html>

```

Output:




SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

Home	Login	Register	Catalogue	Cart
----------------------	-----------------------	--------------------------	---------------------------	----------------------

[IT](#)

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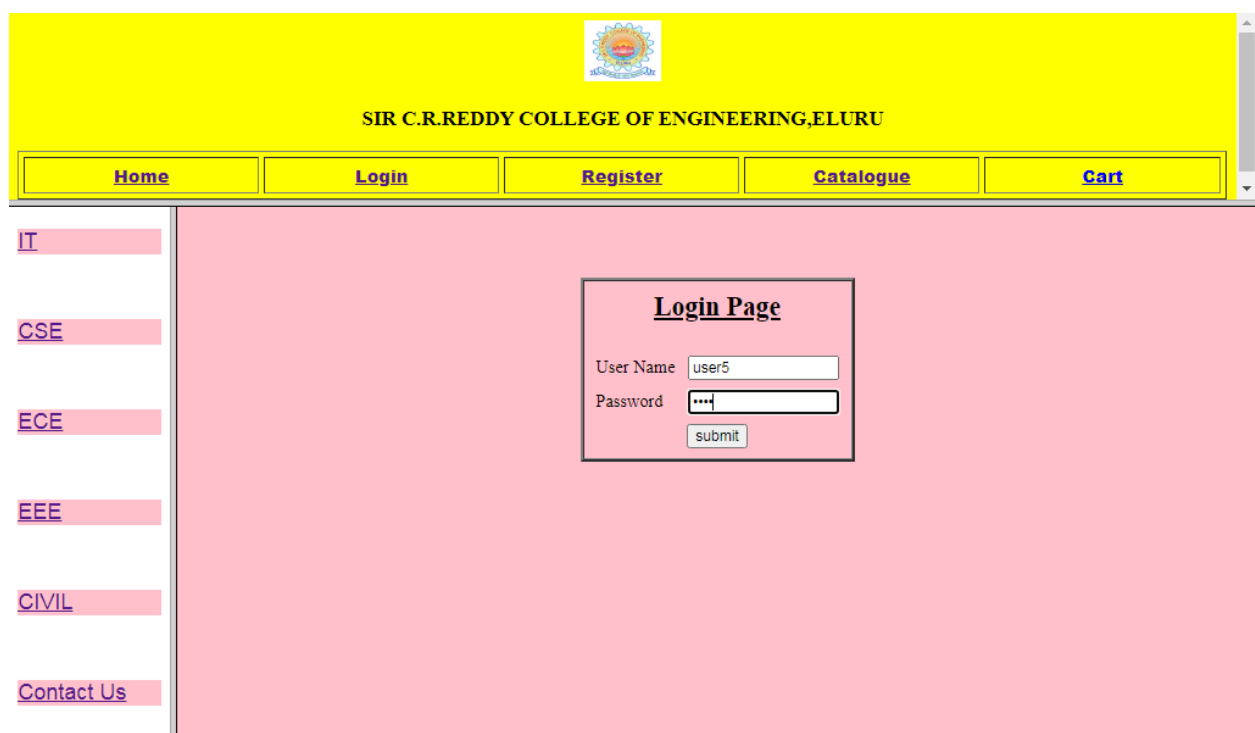
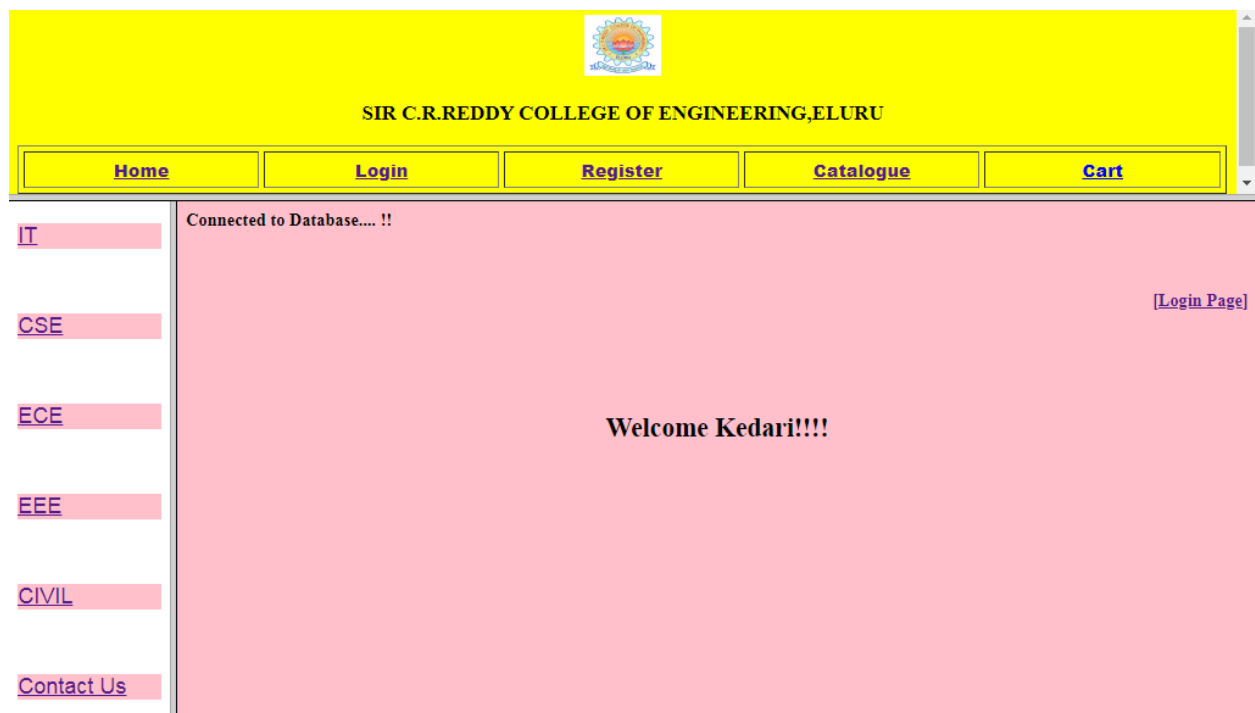
[CIVIL](#)

[Contact Us](#)

Login Page

User Name

Password





SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

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Register
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Connected to Database.... !!

[\[Login Page\]](#)

Invalid Username/Password/Try again!!!!



Server: 127.0.0.1 » Database: regusers » Table: registration

Showing rows 0 - 1 (2 total, Query took 0.0010 sec)

```
SELECT * FROM `registration`
```

☐ Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Number of rows: 25

Sort by key: None

+ Options

	uname	pass	email	phno
☐ Edit Copy Delete	kedari	nandu	kedari@gmail.com	9959951957
☐ Edit Copy Delete	nandu	kedari	kedari@gmail.com	9959951957

☐ Check All With selected:

Number of rows: 25

Query results operations

EXPERIMENT-24

AIM Create tables in the database which contain the details of items (books in our case like Book name , Price, Quantity, Amount) of each category. Modify your catalogue page (week 2) in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using PHP

PROGRAM

bkEntryForm.html

```
<html>
<head>
<title> Catalogue Page</title>
<script language="javascript">
function validate()
{
var nam=document.f1.bname.value;
if(nam=="")
{
alert("Please enter Book name");
document.f1.bname.focus();
return false;
}
var auth=document.f1.auth.value;
if(auth=="")
{
alert("Please enter Author Name");
document.f1.auth.focus();
return false;
}
var publ=document.f1.publ.value;
if(publ=="")
{
alert("Please enter Publisher name");
document.f1.publ.focus();
return false;
}
var isbn=document.f1.isbn.value;
if(isbn=="")
{
alert("Please enter ISBN Number");
document.f1.isbn.focus();
return false;
}
var ed=document.f1.edi.value;
if(ed=="")
{
alert("Please enter book edition");
document.f1.edi.focus();
return false;
}
var cost=document.f1.cost.value;
if(cost=="")
{
alert("Please enter cost of the book");
document.f1.cost.focus();
return false;}
var qty=document.f1.qty.value;
if(qty=="")
{
alert("Please enter number of books you want!!!");
document.f1.qty.focus();
```

```

return false;
}
}
</script>
</head>
<body bgcolor="pink">
<br/><br/><br/>
<center>
<form name="f1" action="Catalogue.php" method="post" onsubmit="j avascript:return validate()">
<table border="3" cellpadding="0" cellspacing="0">
<tr>
<td>
<table cellspacing="5">
<tr>
<td colspan="2" align="center"><h2><u>Book Details Entry Form</u></h2></td>
</tr>
<tr>
<td>Book Name</td>
<td><input type="text" name="bname" size="50"></td>
</tr>
<tr>
<td>Author</td>
<td><input type="text" name="auth" size="50"></td>
</tr>
<tr>
<td>Publication</td>
<td><input type="text" name="publ" size="50"></td>
</tr>
<tr>
<td>ISBN</td>
<td><input type="text" name="isbn" size="15"></td>
</tr>
<tr>
<td>Edition</td>
<td><input type="text" name="edi" size="15"></td>
</tr>
<tr>
<td>Cost</td>
<td><input type="text" name="cost" size="5"></td>
</tr>
<tr>
<td>Quantity</td>
<td><input type="text" name="qty" size="3"></td>
</tr>
<tr>
<td colspan="2" align="center"><input type="submit" value="submit"></td>
</tr>
</table>
</td>
</tr>
</table>
</form>
</center>
</body>
</html>
catalogue.php
<?php
$conn = mysql_connect("localhost","root","");
if($conn)
echo "Connected to database!!!";
else
echo "Failed to Connect:".mysql_error();

```

```

mysql_select_db("test",$conn) or die("No Database existing:".mysql_error());
if(isset($_POST['bname']))
{
    $bname=$_POST['bname'];
    $auth=$_POST['auth'];
    $publ=$_POST['publ'];
    $isbn=$_POST['isbn'];
    $edi=$_POST['edi'];
    $cost=(float)$_POST['cost'];
    $qty=(int)$_POST['qty'];
    echo"<br/><br/><br/><p align=right><a href=bkEntryForm.html>[Book Entry Page]</a></p>";
    $query = "INSERT INTO catalogue VALUES('$bname','$auth','$publ','$isbn','$edi','$cost','$qty)";
    mysql_query($query);
    $result = mysql_query("select * from catalogue");
    ?>
    <html>
    <body bgcolor="pink"><center>
    <font face="verdana" size="4">
    <table border="1" cellpadding="0" cellspacing="0">
    <tr>
    <th colspan="8" align="center">Books List</th>
    </tr>
    <tr>
    <th>$No.</th>
    <th>Title</th>
    <th>Author</th>
    <th>Publication</th>
    <th>ISBN</th>
    <th>Edition</th>
    <th>Cost</th>
    <th>Quantity</th>

    </body>
    </html>
    </tr>
    <?php $num=1; while($row = mysql_fetch_array($result))
    { ?>
    <tr>
    <td align="center"><?php echo $num++; ?></td>
    <td align="left"><?php echo $row['bname']; ?></td>
    <td align="left"><?php echo $row['auth']; ?></td>
    <td align="left"><?php echo $row['publ']; ?></td>
    <td align="center"><?php echo $row['isbn']; ?></td>
    <td align="center"><?php echo $row['edi']; ?></td>
    <td align="center"><?php echo $row['cost']; ?></td>
    <td align="center"><?php echo $row['qty']; ?></td>
    </tr>
    <?php }?>
    </table>
    </center>
    </body>
    </html>
    <?php } ?>

```

Output:



SIR C.R.REDDY COLLEGE OF ENGINEERING,ELURU

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Book Details Entry Form

Book Name

Author

Publication

ISBN

Edition

Cost

Quantity



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Connected to database!!!

[Book Entry Page]

Books List

S.No.	Title	Author	Publication	ISBN	Edition	Cost	Quantity
1	Web Technologies	ysk	koti	28547	5th	200	5
2	Web Technology using php	YSKRAO	McGraw hill	23682	6th	150	3



Server: 127.0.0.1 » Database: test » Table: catalogue

Showing rows 0 - 1 (2 total, Query took 0.0010 sec)

```
SELECT * FROM `catalogue`
```

☐ Profiling [[Inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP Code](#)] [[Refresh](#)]

Number of rows: 25

Sort by key: None

+ Options

	bname	auth	publ	isbn	edi	cost	qty
☐ Edit ☐ Copy ☐ Delete	Web Technologies	ysk	koti	28547	5th	200	5
☐ Edit ☐ Copy ☐ Delete	Web Technology using php	YSKRAO	McGraw hill	23682	6th	150	3

☐ Check All With selected: ☐ Change ☐ Delete ☐ Export

Number of rows: 25

Query results operations

AIM HTTP is a stateless protocol. Session is required to maintain the state. The user may add some items to cart from the catalog page. He can check the cart page for the selected items. He may visit the catalogue again and select some more items. Here our interest is the selected items should be added to the old cart rather than a new cart. Multiple users can do the same thing at a time (i.e., from different systems in the LAN using the ip-address instead of local host). This can be achieved through the use of sessions. Every user will have his own session which will be created after his successful login to the website. When the user logs out his session should get invalidated (by using the method session.Invalidate()). Modify your catalogue and cart PHP pages to achieve the above mentioned functionality using sessions.

PROGRAM

In Top.html add the following code to execute this program

```
<th width="200"><a href="index.php" target="bottomright">Cart</a></th>
```

style.css

```
body
{
width:800px;
}
.txt-heading
{
padding: 5px 10px;
font-size:1.1em;
font-weight:bold;
color:#999;
}
.btnRemoveAction
{
color:#D60202;
border:0;
padding:2px 10px;
font-size:0.9em;
}
#btnEmpty
{
background-color:#D60202;
border:0;
padding:1px 10px;
color:#FFF;
font-size:0.8em;
font-weight:normal;
float:right;
text-decoration:none;
}
.btnAddAction
{
background-color:#79b946;
border:0;
padding:3px 10px;
color:#FFF;
margin-left:1px;
}
```

```
#shopping-cart
{
border-top: #79b946 2px solid;
margin-bottom: 30px;
}
#shopping-cart .txt-heading
{
background-color: #D3F5B8;
}
#shopping-cart table
{
width: 100%;
background-color: #F0F0F0;
}
{
background-color: #FFFFFF;
}
.cart-item
{
border-bottom: #79b946 1px dotted;
padding: 10px;
}
#product-grid
{
border-top: #F08426 2px solid;
margin-bottom: 30px;
}
#product-grid .txt-heading
{
background-color: #FFD0A6;
}
.product-item{
float: left;
background: #F0F0F0;
margin: 15px;
padding: 5px;
}
.product-item div
{
text-align: center;
margin: 10px;
}
.product-price
{
color: #F08426;
}
.product-image{
height: 100px;
background-color: #FFF;
}
dbController.php

<?php
class DBController
{
```

```

        private $host = "localhost";
private $user = "root";
private $password = "";
private $database = "test1";
function __construct()
{
    $conn = $this->connectDB();
    if(!empty($conn))
    {
        $this->selectDB($conn);
    }
}
function connectDB()
{
    $conn = mysql_connect($this->host,$this->user,$this->password);
    return $conn;
}
function selectDB($conn)
{
    mysql_select_db($this->database,$conn);
}
function runQuery($query)
{
    $result = mysql_query($query);
    if (!$result) {
        die(mysql_error());
    }
    while($row=mysql_fetch_assoc($result)) {
        $resultset[] = $row;
    }
    if(!empty($resultset))
    return $resultset;
}
}
?>

```

index.php

```

<?php
session_start();
require_once("dbController.php");
$db_handle = new DBController();
if(!empty($_GET["action"]))
{
    switch($_GET["action"])
    {
        case "add":
            if(!empty($_POST["quantity"]))
            {
                $productByCode =
                    $db_handle->runQuery("SELECT * FROM tbl WHERE code=" . $_GET["code"] . " ");
                $itemArray
                =array($productByCode[0]["code"]=>array('name'=>$productByCode[0]["name"],'code'=>$productByCode[
0]["code"], 'quantity'=>$_POST["quantity"], 'price'=>$productByCode[0]["price"]));
                if(!empty($_SESSION["cart_item"]))
                {
                    if(in_array($productByCode[0]["code"],$_SESSION["cart_item"]))
                    {

```

```

        foreach($_SESSION["cart_item"] as $k => $v)
        {
            if($productByCode[0]["code"] == $k)
$_SESSION["cart_item"][$k]["quantity"]=$_POST["quantity"];
        }
        } else
        {
            $_SESSION["cart_item"] =array_merge($_SESSION["cart_item"],$itemArray);
        }
    } else {
        $_SESSION["cart_item"] = $itemArray;
    }
}
break;
case "remove":
if(!empty($_SESSION["cart_item"]))
{
    foreach($_SESSION["cart_item"] as $k => $v)
    {
        if($_GET["code"] == $k)
            unset($_SESSION["cart_item"][$k]);
            if(empty($_SESSION["cart_item"]))
                unset($_SESSION["cart_item"]);
        }
    }
    break;
case "empty":
    unset($_SESSION["cart_item"]);
    break;
}
}

?>
<HTML>
<HEAD>
<TITLE>Simple PHP Shopping Cart</TITLE>
<link href="style.css" type="text/css" rel="stylesheet" />
</HEAD>
<BODY>
<div id="shopping-cart">
<div class="txt-heading">Shopping Cart <a id="btnEmpty" href="index.php?action=empty">Empty
Cart</a></div>
<?php
if(isset($_SESSION["cart_item"]))
{
    $item_total =0;
?>
<table cellpadding="10" cellspacing="1">
<tbody>
<tr>
<th><strong>Name</strong></th>
<th><strong>Code</strong></th>
<th><strong>Quantity</strong></th>
<th><strong>Price</strong></th>
<th><strong>Action</strong></th>
</tr>
<?php
foreach($_SESSION["cart_item"] as $item){
?>
    <tr>
<td><strong><?php echo $item["name"]; ?></strong></td>
<td><?php echo $item["code"]; ?></td>
<td align=center><?php echo $item["quantity"]; ?></td>

```

```

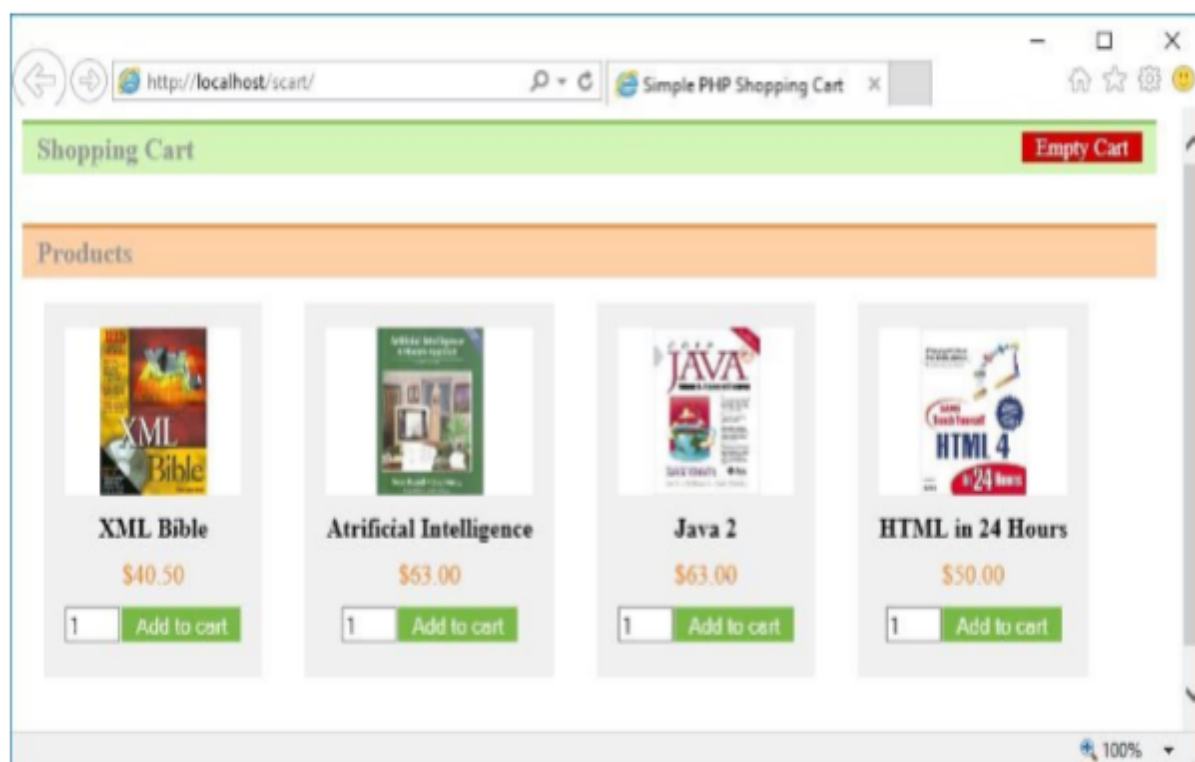
<td align=right><?php echo "$".$item["price"]; ?>/td>
<td>
<a href="index.php? action=remove&code=<?php echo $item["code"];?>"
  class="btnRemoveAction">Remove Item</a>
</td>
</tr>
<?php
$item_total += ($item["price"]*$item["quantity"]);
}
?>
<tr>
<td colspan="5" align=right><strong>Total:</strong><?php echo "$".$item_total; ?>/td>
</tr>
</tbody>
</table>
<?php
}
?>
</div>
<div id="product-grid">
<div class="txt-heading">Products</div>
<?php
$product_array = $db_handle->runQuery("SELECT * FROM tbl ");
if (!empty($product_array)) {
foreach($product_array as $key=>$value){
?>
  <div class="product-item">
    <form method="post"
      action="index.php?action=add&code=<?php echo $product_array[$key]["code"]; ?>">
    <div class="product-image">
" height="75" width="75">/div>
    <div><strong><?php echo $product_array[$key]["name"]; ?></strong></div>
    <div class=" product-price"><?php echo "$".$product_array[$key]["price"]; ?></div>
    <div class=" product-price"><?php echo "Quantity:". $product_array[$key]["quantity"]; ?></div>
    <div><input type="text" name="quantity" value="1" size="2" />
    <input type="submit" value="Add to cart" class="btnAddAction" /></div>
  </form>
</div>

<?php
}
}
?>
</div>
</BODY>
</HTML>

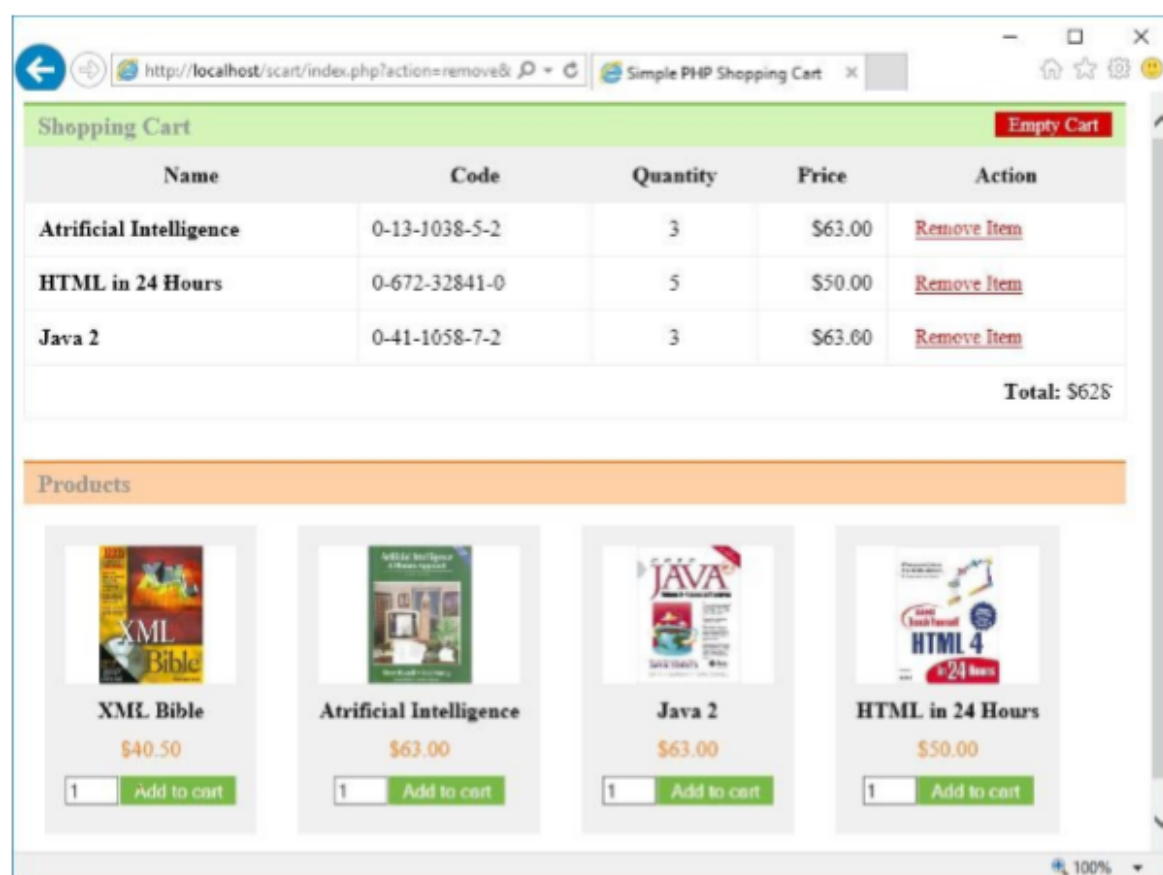
```

Output:

Empty Cart



After modification



After adding items to cart

The screenshot shows a web browser window with the address bar displaying `http://localhost/scart/index.php?action=add&cod`. The page title is "Simple PHP Shopping Cart".

Shopping Cart

Empty Cart

Name	Code	Quantity	Price	Action
XML Bible	0-7645-4760-7	10	\$40.50	Remove Item
Atrificial Intelligence	0-13-1038-5-2	3	\$63.00	Remove Item
				Total: \$594

Products

XML Bible
\$40.50
1

Atrificial Intelligence
\$63.00
1

Java 2
\$63.00
1

HTML in 24 Hours
\$50.00
1

100%