

S.R.K.R. ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Chinnamiram, Bhimavaram-534204

WEB TECHNOLOGIES LAB RECORD



Submitted by

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BRANCH : Information Technology

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YEAR, SEM: 3rd B. Tech, 2nd Semester

ACADEMIC YEAR: 2020-2021

LAB : WEB TECHNOLOGIES

INTERNAL EXAMINER

EXTERNAL EXAMINER

Design the following static web pages required for an online book store web site ONLINE BOOKSTORE

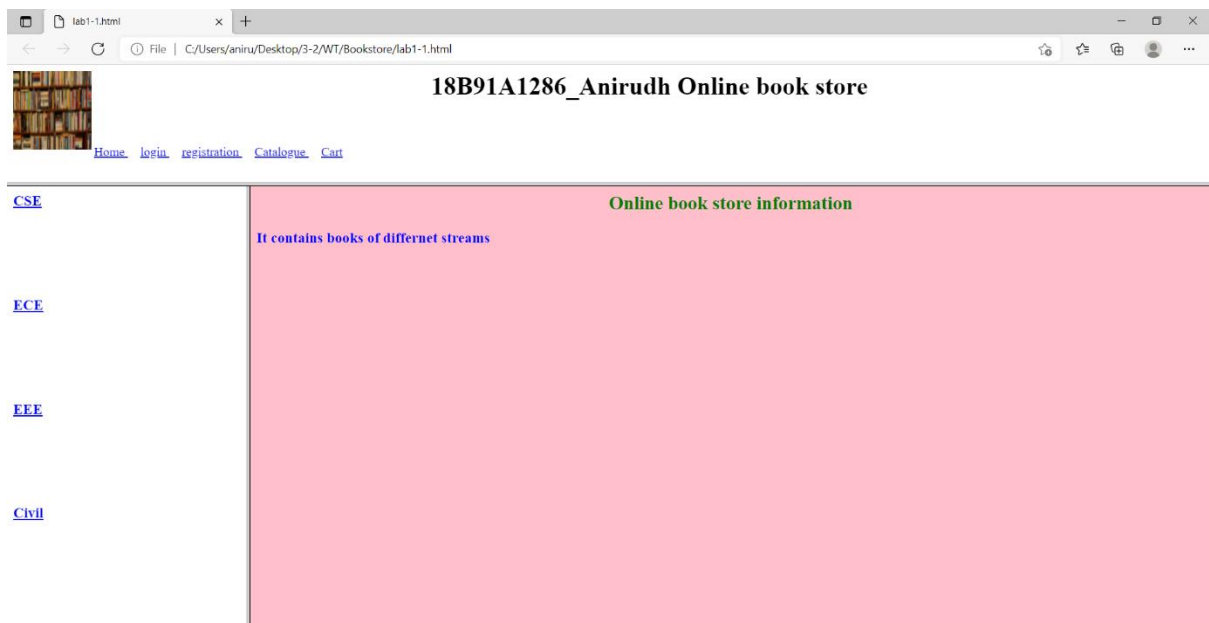
1)HOME PAGE:

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). Left frame: At least four links for navigation, which will display the catalogue of respective links. For e.g.: When you click the link "MCA" the catalogue for MCA Books should be displayed in the Right frame

SOURCE code:

```
<head>
  <frameset rows="20%,*">
    <frame src="topframe.html" name="f1">
      <frameset cols="20%,*">
        <frame src="leftframe.html" name="f2">
        <frame src="rightframe.html" name="f3">
      </frameset>
    </frameset>
  </head>
```

Output:

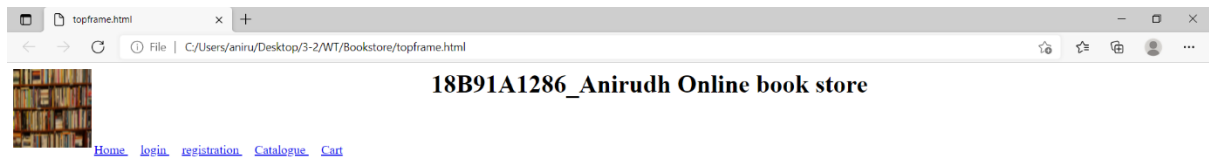


Top frame:

Source code:

[illegible]

Output:



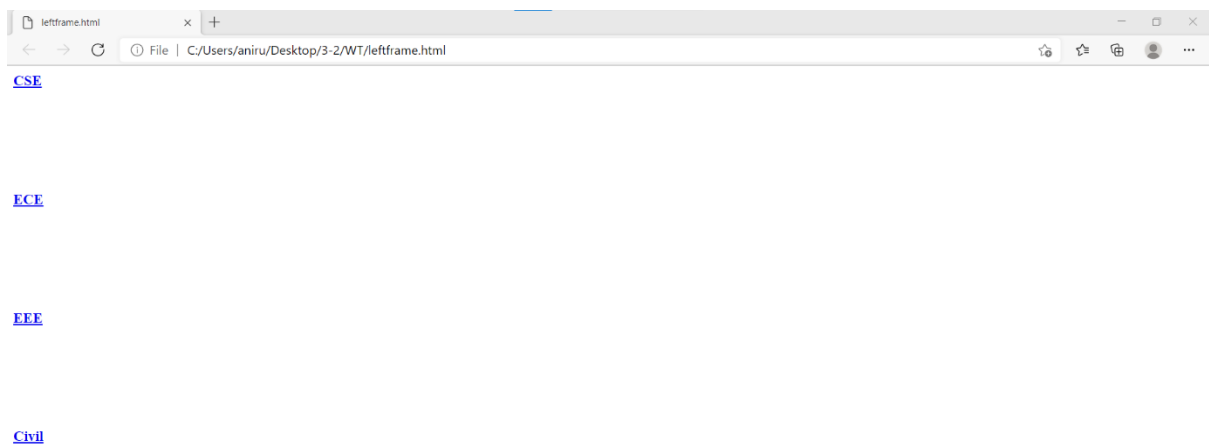
Left frame:

Source code:

```
<html>

  <body>
    <a href=cse.html ><h3>CSE</h3> </a><br><br><br><br>
    <a href=ece.html ><h3>ECE</h3></a><br><br><br><br>
    <a href=eee.html ><h3>EEE</h3></a><br><br><br><br>
    <a href=civil.html ><h3>Civil</h3></a>
  </body>
</html>
```

Output:



Right frame:

Source code:

Right frame:

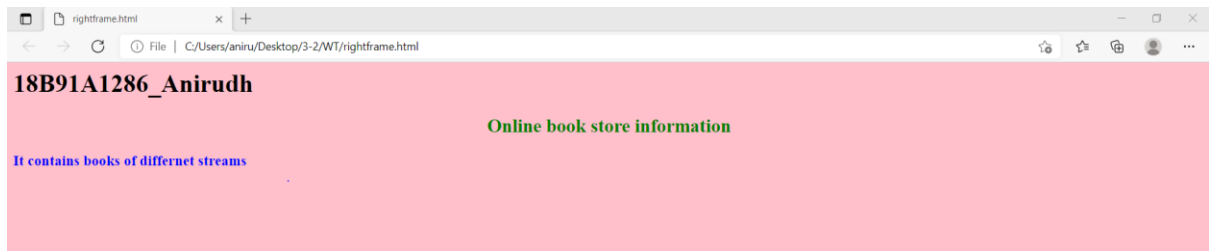
```
<html>
  <body bgcolor="pink">
<h1>18B91A1286</h1>
  <p>
```

```

    <h2 align="center"> <font color="green" >Online book store information </
font> </h2>
    <h3> <font color=blue> It contains books  of differnet streams</font></h3>
    </p>
    </body>
</html>

```

Output:



2)Login page:

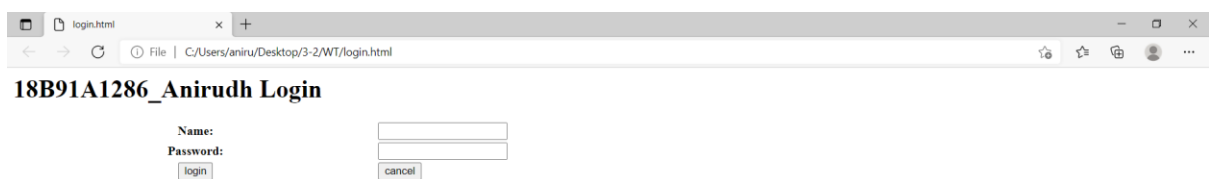
Source code:

```

<html>
    <body>
        <form action="moving.html" method="post" name="login">
            <table width="100%">
                <tr>
                    <th>Name:</th>
                    <td><input type="text" name="usr"></input></td>
                </tr>
                <tr>
                    <th>Password:</th>
                    <td><input type="password" name="pwd"></input></td>
                <tr>
                    <th><input type="submit" value="login" name="bt"></inp
ut></th>
                    <td><input type="reset" value="cancel" name="bt"></inp
ut></td>
                </table>
            </form>
        </body>
</html>

```

Output:



3)registration form:

Code:

```
<html>
  <body>
    <form action="moving.html" method="post" name="registration">
      <center><i>18B91A1286_Anirudh Registration Form</i></center>
      <table width=100%>

        <tr>
          <th>Name:</th>
          <td><input type="text" name="usr"></input></td>
        </tr>
        <tr>
          <th>Password:</th>
          <td><input type="password" name="pwd"></input><td>
        </tr>
        <tr>
          <th>Email-id:</th>
          <td><input type="text" name="usr"></input>
        </tr>
        <tr>
          <th>phonenumber:</th>
          <td><input type="number" name="num"></input></td>
        </tr>
        <tr>
          <th>Gender:</th>\
          <td><input type="radio" name="rd" value="MALE">MALE</i>
nput>
          <input type="radio" name="rd" value="FEMALE">FEMALE
</input></td>
        </tr>
        <tr>
          <th>Dateofbirth:</th>
          <td><select name="date">
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
          </select>
          <select name="month">
            <option value="jan">jan</option>
```

```

        <option value="feb">feb</option>
        <option value="mar">mar</option>
        <option value="apr">apr</option>
    </select>
    <select name="year">
        <option value="2018">2018</option>
        <option value="2019">2019</option>
        <option value="2020">2020</option>
        <option value="2021">2021</option>
    </select></td>
</tr>
<tr>
    <th>Address:</th>
    <td><textarea cols=5 rows=10 name="address"></textarea>
</td>
</tr>
<tr>
    <th>Languagesknown:</th>
    <td><input type="checkbox" >English</input>
    <input type="checkbox" name="ch2" value="Telug
u">Telugu</input>
    <input type="checkbox" name="ch3" value="Hindi
">Hindi</input></td>
</tr>
<tr>
    <th><input type="submit" value="submit" name="bt"></in
put></th>
    <td><input type="reset" value="cancel" name="bt"></in
put></td>
</tr>
</table>
</form>
</body>
</html>

```

Output:

The screenshot shows a web browser window with the file 'register.html' open. The page title is '18B91A1286_Anirudh Registration Form'. The form layout is as follows:

- Name:** Text input field.
- Password:** Text input field.
- Email-id:** Text input field.
- phonenumber:** Text input field.
- Gender:** Radio buttons for 'MALE' and 'FEMALE'.
- Dateofbirth:** Two dropdown menus for month (currently '1') and year (currently '2018').
- Address:** A large text area for address input.
- Languagesknown:** Three checkboxes for 'English', 'Telugu', and 'Hindi'.
- Buttons:** 'submit' and 'cancel' buttons at the bottom.

3)cart:

Source Code:

```
<html>
  <body>
    <center><h1>18B91A1286_Anirudh Shopping Cart Page</h1></center>
    <table border=1 width=100%>
      <tr>
        <th>Book Name</th>
        <th>Price</th>
        <th>Quantity</th>
        <th>Amount</th>
      </tr>

      <tr>
        <td>Java Programing</td>
        <td>$40</td>
        <td>2</td>
        <td>$80</td>
      </tr>

      <tr>
        <td>Analog and Digital Communication</td>
        <td>$30</td>
        <td>1</td>
        <td>$30</td>
      </tr>
      <tr>
        <td colspan="3">Total Amount</td>
        <td>$110</td>
      </tr>
    </table>
  </body>
</html>
```

Output:

18B91A1286_Anirudh Shopping Cart Page			
Book Name	Price	Quantity	Amount
Java Programing	\$40	2	\$80
Analog and Digital Communication	\$30	1	\$30
Total Amount			\$110

4) catalogue page:

The catalogue page should contain the details of all the books available in the web site in a table. The details should contain the following: 1. Snap shot of Cover Page. 2. Author Name. 3. Publisher. 4. Price. 5. Add to cart button

Source code:

```
<html>
  <body>
    <center><h1>18B91A1286_Anirudh Book Details</h1></center>
    <a name=cse></a>
    <table border =1 width="100%">
      <tr>
        <th colspan="4">CSE</th>
      </tr>
      <tr align="center">
        <td>
        <td>
          <b>Book:</b>Pro web Technologies<br>
          <b>Author:</b>UttamRoy<br>
          <b>Publication:</b>Wiely<br>
        </td>
        <td>$49.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
      </tr>
      <tr align="center">
        <td>
        <td>
          <b>Book:</b>Pro Java Programming<br>
          <b>Author:</b>Brett Spell<br>
          <b>Publication:</b>Wiely<br>
        </td>
        <td>$40.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
      </tr>
      <tr align="center">
```

```

        <td>
        <td>
            <b>Book:</b>Pro c Programming<br>
            <b>Author:</b>Balaguruswami<br>
            <b>Publication:</b>David Wiely<br>
        </td>
        <td>$51.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>Pro c++ Programming<br>
            <b>Author:</b>Balaguru<br>
            <b>Publication:</b>Wiely<br>
        </td>
        <td>$52.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>Pro computer Programming<br>
            <b>Author:</b>Brettl<br>
            <b>Publication:</b>fiely<br>
        </td>
        <td>$53.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>Computer networks<br>
            <b>Author:</b>Billy<br>
            <b>Publication:</b>Wanh<br>
        </td>
        <td>$54.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
</table>

```

```

<a name=ece></a>
<table border =1 width="100%">
    <tr>
        <th colspan="4">ECE</th>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>Pro Java Programming<br>
            <b>Author:</b>Brett Spell<br>

```

```

        <b>Publication:</b>Wiely<br>
    </td>
    <td>$49.00</td>
    <td><input type="button" name="b1" value="Add to cart"></
input></td>
</tr>
<tr align="center">
    <td>
    <td>
        <b>Book:</b>Pro Java Programming<br>
        <b>Author:</b>Brett Spell<br>
        <b>Publication:</b>Wiely<br>
    </td>
    <td>$49.00</td>
    <td><input type="button" name="b1" value="Add to cart"></
input></td>
</tr>
<tr align="center">
    <td>
    <td>
        <b>Book:</b>Pro Java Programming<br>
        <b>Author:</b>Brett Spell<br>
        <b>Publication:</b>Wiely<br>
    </td>
    <td>$49.00</td>
    <td><input type="button" name="b1" value="Add to cart"></
input></td>
</tr>
<tr align="center">
    <td>
    <td>
        <b>Book:</b>Pro Java Programming<br>
        <b>Author:</b>Brett Spell<br>
        <b>Publication:</b>Wiely<br>
    </td>
    <td>$49.00</td>
    <td><input type="button" name="b1" value="Add to cart"></
input></td>
</tr>
<tr align="center">
    <td>
    <td>
        <b>Book:</b>communication network<br>
        <b>Author:</b> Spell<br>
        <b>Publication:</b>finley<br>
    </td>
    <td>$56.00</td>
    <td><input type="button" name="b1" value="Add to cart"></
input></td>
</tr>
<tr align="center">
    <td>
    <td>
        <b>Book:</b>.net<br>
        <b>Author:</b>Brett lee<br>
        <b>Publication:</b>Rocky<br>

```

```

        </td>
        <td>$57.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
</table>
<a name=eee></a>
<table border =1 width="100%">
    <tr>
        <th colspan="4">EEE</th>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>circuits<br>
            <b>Author:</b>BreSpell<br>
            <b>Publication:</b>Willy<br>
        </td>
        <td>$50.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>resistors P<br>
            <b>Author:</b> Spell<br>
            <b>Publication:</b>browny<br>
        </td>
        <td>$51.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>cateia<br>
            <b>Author:</b> pell<br>
            <b>Publication:</b>White<br>
        </td>
        <td>$52.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>fhughfjng<br>
            <b>Author:</b>fojfejk<br>
            <b>Publication:</b>uehigj<br>
        </td>
        <td>$53.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">

```

```

        <td>
        <td>
            <b>Book:</b>current<br>
            <b>Author:</b>Brett Spell<br>
            <b>Publication:</b>Wiely<br>
        </td>
        <td>$48.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>Hello<br>
            <b>Author:</b>Brettlee<br>
            <b>Publication:</b>Wiely<br>
        </td>
        <td>$47.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
</table>
<a name=civil></a>
<table border =1 width="100%">
    <tr>
        <th colspan="4">CIVIL</th>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>concrete technology<br>
            <b>Author:</b>BreSpell<br>
            <b>Publication:</b>Willy<br>
        </td>
        <td>$50.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>fieldwork<br>
            <b>Author:</b> Spell<br>
            <b>Publication:</b>browny<br>
        </td>
        <td>$51.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>cement<br>
            <b>Author:</b> pell<br>
            <b>Publication:</b>White<br>
        </td>

```







```

        <td>$52.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>fhughfjng<br>
            <b>Author:</b>fojfejk<br>
            <b>Publication:</b>uehigj<br>
        </td>
        <td>$53.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>current<br>
            <b>Author:</b>Brett Spell<br>
            <b>Publication:</b>Wiely<br>
        </td>
        <td>$48.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
    <tr align="center">
        <td>
        <td>
            <b>Book:</b>Hello<br>
            <b>Author:</b>Brettlee<br>
            <b>Publication:</b>Wiely<br>
        </td>
        <td>$47.00</td>
        <td><input type="button" name="b1" value="Add to cart"></
input></td>
    </tr>
</table>

</body>
</html>

```

Output:

18B91A1286_Anirudh Book Details			
CSE			
	Book: Pro web Technologies Author: UttamRoy Publication: Wiley	\$49.00	Add to cart
	Book: Pro Java Programming Author: Brett Spell Publication: Wiley	\$40.00	Add to cart
	Book: Pro c Programming Author: Balaguruswami Publication: David Wiley	\$51.00	Add to cart
	Book: Pro c++ Programming Author: Balaguru Publication: Wiley	\$52.00	Add to cart
	Book: Pro computer Programming Author: BrettI Publication: fiely	\$53.00	Add to cart
	Book: Computer networks Author: Billy Publication: Wanh	\$54.00	Add to cart

5. DESIGN A WEB PAGE USING CSS (Cascading Style Sheets) which includes the following: 1) Use different font, styles: In the style definition you define how each selector should work (font, color etc.). Then, in the body of your pages, you refer to these selectors to activate the styles

Source code:

Code:

```
<html>
  <head>
    <title>18B91A1286_Anirudh_css</title>
    <style>
      h4,h5,b
      {
        color:grey;
        font-size:large;
      }
      p
      {
        text-align: center;
        color:brown;
        letter-spacing:15px;
        font-weight:500;
        font-style:italic;
      }
    #p
    {
      text-align: left;
      color: blue;
    }
  </head>
  <body>
  </body>
</html>
```

```

        font-variant:initial;
        font-size:large;
    }
    .center
    {
        text-align: center;
        text-decoration:line-through;
        font-size:large;
        color:purple;
    }
    h3
    {
        background-color: lightgrey;
        border-style: dotted;
        padding: 50px 50px 50px 50px;
        border-color:green;
        border-width:5px;
    }
    a:link
    {
        color: green;
        font-size:20px;
    }
    a:visited
    {
        color: pink;

        font-size:20px;
    }
    a:active
    {
        color: blue;
    }
    a:hover
    {
        color: black;
        text-decoration: none
        font-size:20px;
    }
    .r
    {
        cursor: crosshair
    }
    .hlink
    {
        cursor:help;
    }
</style>
</head>
<body>
    <h1>18B91A1286_anirudh</h1>
    <h4>group selector case 1</h4>

```



```

<h5>group selector case 2</h5>
<b>group selector case 3</b>
<h1 id="p">id selector</h1>
<p class="r">Tag selector</p>
<h2 class="center">class selector</h2>
<h3>Css Box Model</h3>
<center><b><a href="#" class="xlink">CROSS LINK</a><br>
  <a href="#" class="hlink">HELP LINK</a></b></center><br>
</body>
</html>

```

Output:



Login validation.html:

Source code:

Code:

```

<html>
  <head>
    <title>18B91A1286_Anirudh_loginjs</title>
    <script src="Validation.js"> </script>
  </head>
  <body text=red bgcolor=black>
    <form action="#" method="post">
      <center>

      <table border=0>
        <tr>
          <th colspan=2>LOGIN FOR BOOK STORE</th>
        </tr>
        <tr></tr>

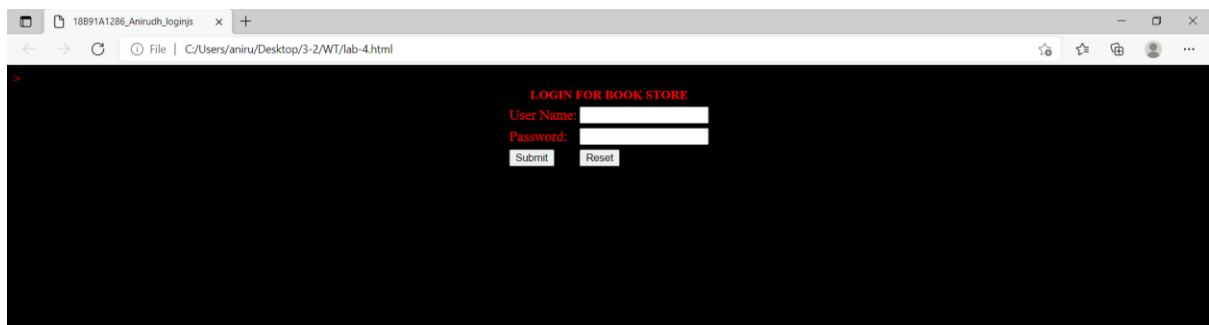
```

```

        <tr>
            <td><font size=4>User Name:</font></td>
            <td><input type="text" name="txtfld"></td>
        </tr>
    </tr></tr>
    <tr>
        <td><font size=4>Password:</font></td>
        <td><input type="password" name="passfld"></td>
    </tr>
    <tr></tr>
    <tr>
        <td><input type=submit value="Submit" onClick="loginFieldsVali
date()"></td>
        <td><input type=reset value="Reset"></td>
    </tr>
</table>
</center>
</form>
</body>
</html>

```

Output:



Login Validation.js

Code:

Code:

```

function loginFieldsValidate()
{
    var valid=false;

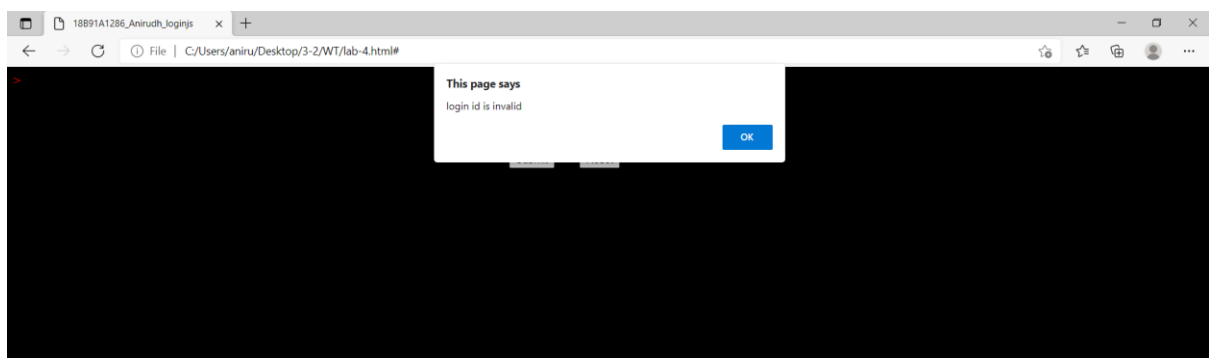
```

```

var id=document.forms[0].elements[0].value;
var pass=document.forms[0].elements[1].value;
var id_re= new RegExp("[a-z][0-9a-zA-Z]+$", "g");
var pass_re=new RegExp("[0-9A-Za-z]{6,}", "g")
if(id.match(id_re))
{
    if(pass.match(pass_re))
    {
        alert("All Field values are in correct format");
        valid=true;
    }
    else
    {
        alert("password is invalid");
    }
}
else
{
    alert("login id is invalid");
}
return valid;
}

```

Output:



Registration validation:

Registration validation:

Code:

```

<html>
  <head>
    <script type="text/javascript">
<title>18B91A1286_Anirudh_registrationjs</title>

```

```

function registrationValidate()
{
    var valid=false;
    var user=document.forms[0].elements[0].value;
    var pass=document.forms[0].elements[1].value;
    var email_id=document.forms[0].elements[2].value;
    var phone_no=document.forms[0].elements[3].value;
    var user_re= new RegExp("[a-z][0-9a-zA-Z]+$", "g");
    var pass_re=new RegExp("[0-9A-Za-z]{6,}", "g");
    var email_re=/\S+@\S+\.\S+/;
    var phone_re=new RegExp("[0-9]{2}");
    if(user.match(user_re))
    {
        if(pass.match(pass_re))
        {
            if(email_id.match(email_re))
            {
                if(phone_no.match(phone_re))
                {
                    alert("All Fields Are In Correct Format");
                    valid=true;
                }
            }
            else
            {
                alert("Invalid phone number");
            }
        }
        else
        {
            alert("Invalid EmailId");
        }
    }
    else
    {
        alert("Invalid Password");
    }
    else
    {
        alert("Invalid Name");
    }
    return valid;
}
</script>
</head>
<body>
    <form action="#" method="post">
        <table border=0>
            <tr>
                <th colspan=2>Registration Form</th>
            </tr>
            <tr>
                <th>username:</th>

                <td><input type="text" name="usr"></input></td>
            </tr>
            <tr>
                <th>Password:</th>
                <td><input type="password" name="pwd"></input></td>
            </tr>
            <tr>
                <th>Email-id:</th>

```

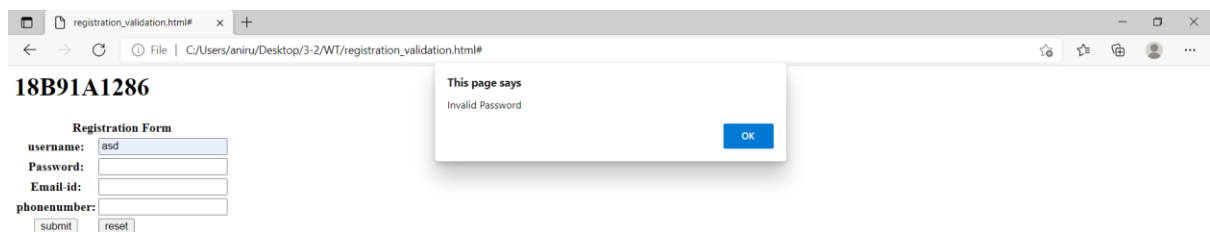
```

        <td><input type="text" name="gmail"></input></td>
    </tr>
    <tr>
        <th>phonenumber:</th>
        <td><input type="number" name="num"></input></td>
    </tr>

    <tr>
        <th><input type="submit" value="submit" onClick="registrat
ionValidate()"></input></th>
        <td><input type="reset" value="reset"></input></td>
    </tr>
</table>
</form>
</body>
</html>

```

Output:



6. WRITE AN XML file which will display the Book information which includes the following:

- 1) Title of the book
- 2) Author Name
- 3) ISBN number
- 4) Publisher name

5) Edition

6) Price Write a Document Type Definition (DTD) to validate the above XML file

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE bookinfo [
    <!ELEMENT bookinfo (aboutbook+)>
    <!ELEMENT aboutbook (title,authorname,ISBNno,publishername,edition,price)>
    <!ELEMENT title (#PCDATA)>
    <!ELEMENT authorname (#PCDATA)>
    <!ELEMENT ISBNno (#PCDATA)>
    <!ELEMENT publishername (#PCDATA)>
    <!ELEMENT edition (#PCDATA)>
    <!ELEMENT price (#PCDATA)>
]>
<bookinfo>
  <aboutbook>
    <title>c</title>
    <authorname>M.V.Anirudh</authorname>
    <ISBNno>18B91A1286</ISBNno>
    <publishername>nanda</publishername>
    <edition>3</edition>
    <price>1200</price>
  </aboutbook>
  <aboutbook>
    <title>java</title>
    <authorname>Anni</authorname>
    <ISBNno>18B91A1286</ISBNno>
    <publishername>Bill Joy</publishername>
    <edition>5</edition>
    <price>1000</price>
  </aboutbook>
  <aboutbook>
    <title>python</title>
    <authorname>venkat</authorname>
    <ISBNno>18B91A1286</ISBNno>
    <publishername>LARRY page</publishername>
    <edition>4</edition>
    <price>1500</price>
  </aboutbook>
</bookinfo>
```

Output:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

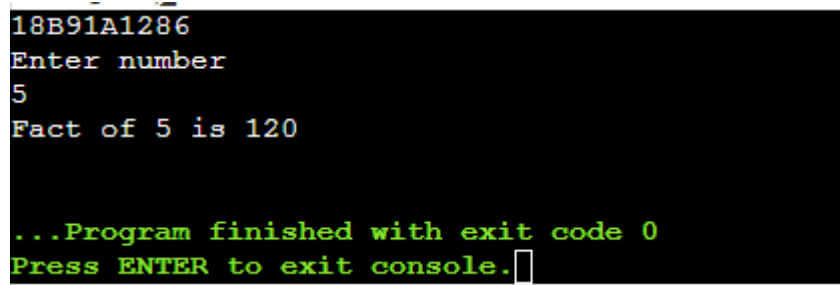
```
<?xml version="1.0"?>
<bookinfo>
  <aboutbook>
    <title></title>
    <authorname>M.V.Anirudh</authorname>
    <ISBNno>18B91A1286</ISBNno>
    <publishername>nanda</publishername>
    <edition>3</edition>
    <price>1200</price>
  </aboutbook>
  <aboutbook>
    <title>java</title>
    <authorname>Anni</authorname>
    <ISBNno>18B91A1286</ISBNno>
    <publishername>Bill Joy</publishername>
    <edition>5</edition>
    <price>1000</price>
  </aboutbook>
  <aboutbook>
    <title>python</title>
    <authorname>venkat</authorname>
    <ISBNno>18B91A1286</ISBNno>
    <publishername>Larry page</publishername>
    <edition>4</edition>
    <price>1500</price>
  </aboutbook>
</bookinfo>
```

7. Write Ruby program reads a number and calculates the factorial value of it and prints the Same.

Source code:

```
puts "18B91A1286"
puts "Enter number"
num = gets.chomp.to_i
fact=1
i=1
while(i<=num)
  fact=fact*i
  i=i+1
end
puts "Fact of #{num} is #{fact}"
```

output:



```
18B91A1286
Enter number
5
Fact of 5 is 120

...Program finished with exit code 0
Press ENTER to exit console.
```

12.program to find area of triangle

Puts " 18B91A1286"

```
puts "Enter length of sides a,b,c:"
```

```
a=gets.chomp.to_i
```

```
b=gets.chomp.to_i
```

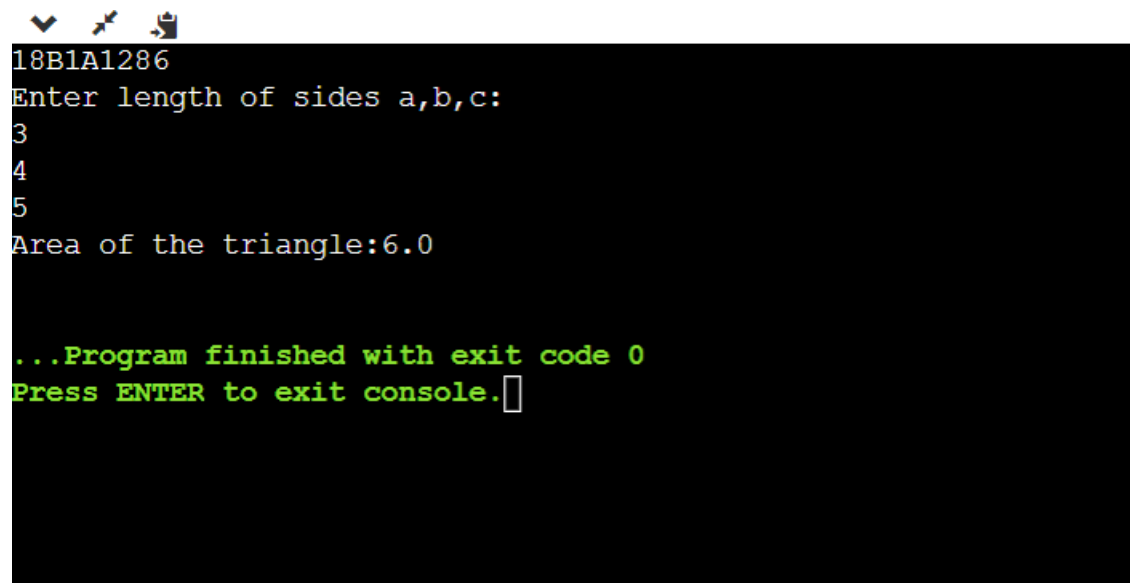
```
c=gets.chomp.to_i
```

```
s=(a+b+c)/2
```

```
area=Math.sqrt(s*(s-a)*(s-b)*(s-c))
```

```
puts "Area of the triangle:#{area}"
```

Output:



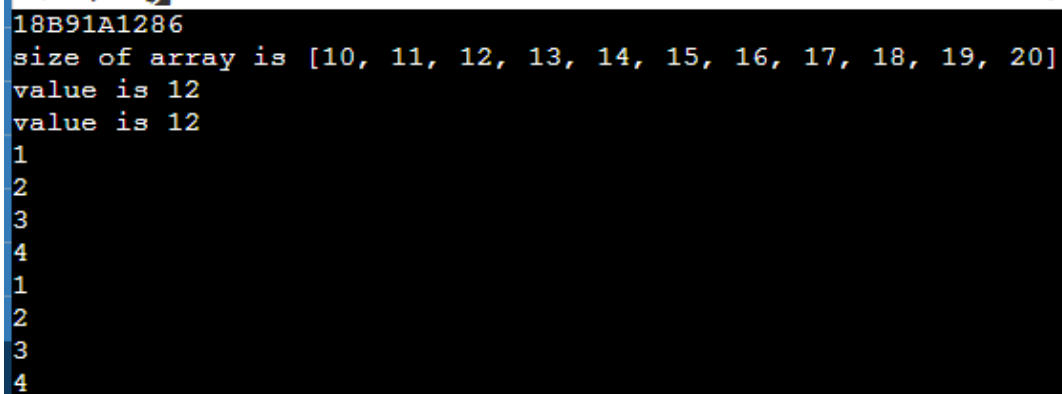
```
18B1A1286
Enter length of sides a,b,c:
3
4
5
Area of the triangle:6.0

...Program finished with exit code 0
Press ENTER to exit console.
```

10. Write simple Ruby programs that use arrays in Ruby.
Code:


```
puts "18B91A1286"
arr = Array(10..20)
puts "size of array is #{arr}"
puts "value is #{arr.at(2)}"
puts "value is #{arr[2]}"
x=Array.[](1,2,3,4)
puts x
y=Array[1,2,3,4]
Puts y
```

Output:

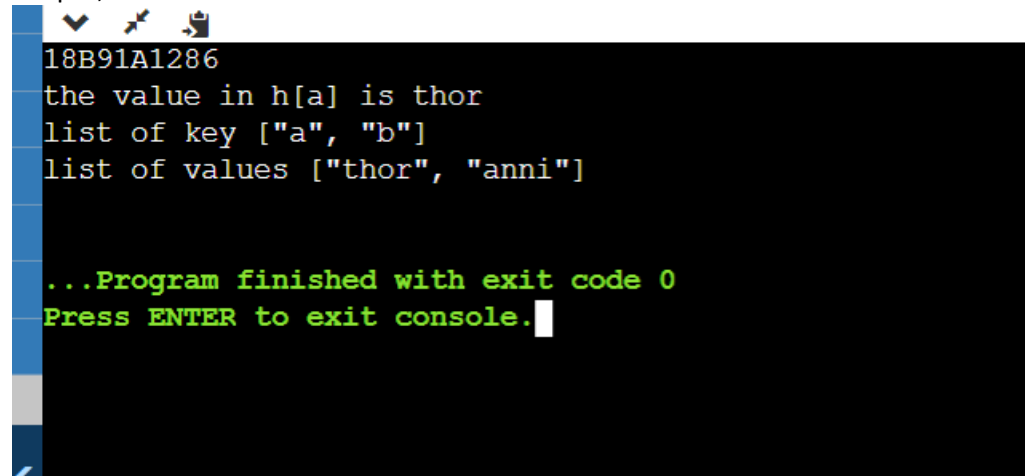
A screenshot of a terminal window showing the output of the Ruby code. The output is as follows:

```
18B91A1286
size of array is [10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
value is 12
value is 12
1
2
3
4
1
2
3
4
```

11. Write programs which uses associative arrays concept of Ruby.
h=Hash["a"=>"thor",b=>"anni"]

```
Puts "18B91A1286"  
puts "the value in h[a] is #{h['a']}"  
  
puts "list of key #{h.keys}"  
  
puts "list of values #{h.values}"  
  
mh=Hash.new("loki")  
  
puts "Value at 2 #{mh[2]}"
```

Output;:



```
18B91A1286  
the value in h[a] is thor  
list of key ["a", "b"]  
list of values ["thor", "anni"]  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

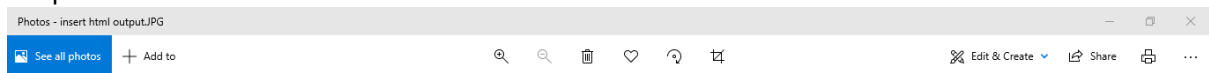
CRUD OPERATIONS:
Insert.html:

Source code:

```
<html>
<title>18B91A1286_Anirudh</title>

<body>
  <form action="insert.php" method="POST">
    name <input type="text" name="name"/><br>
    id <input type="text" name="rollno"/><br>
    branch <input type="text" name="branch"/><br>
    Marks <input type="text" name="cgpa"/><br>
    <input type="submit" value="insert"/><br>
  </form>
</body>
</html>
```

Output:



Insert.php:

```
<?php
$server="localhost";
$user="root";
$pass="";
$dbname="18B91A1286";
$con =mysqli_connect($server,$user,$pass,$dbname);
if(!$con)
{
  die("Error : : ".mysqli_connect_error());
}
```

```

$sql = "INSERT INTO students VALUES
('".$_POST['name']."','".$_POST['rollno']."','".$_POST['branch']."','".$_POST['cgpa']."')";
$res = mysqli_query($con,$sql);
if($res)
{
    $sql2="select * from students";
    $sres=mysqli_query($con,$sql2);
    echo "<h1>1891A1286_Anirudh</h1>";
    echo "<table border=1>
        <tr>
            <th>name</th>
            <th>rollno</th>
            <th>branch</th>
            <th>cgpa</th>

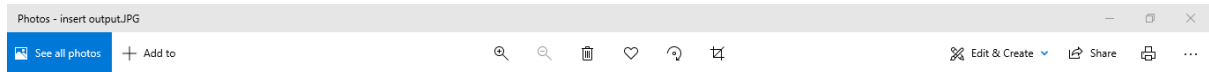
            </tr>";
    while($row= mysqli_fetch_array($sres))
    {
        echo "<tr>";
        echo "<td>".$row[0]."</td>";
        echo "<td>".$row[1]."</td>";
        echo "<td>".$row[2]."</td>";
        echo "<td>".$row[3]."</td>";
        echo "</tr>";
    }
    echo "</table>";

}
else
{
    echo "Issue with query";
}
mysqli_close($con);

?>

```

Output:



1891A1286_Anirudh

name	rollno	branch	cgpa
anni	233	cs	7.9
anni	2345	cs	7.9
thor	250	cse	7.6
hulk	280	cse	7.6
DR.Strange	286	it	7

FOR DELETE:

Delete html code:

```
<html>
```

```
<title>18B91A1286_Anirudh</title>
```

```
<body>
```

```
<form action="delete.php" method="POST">
```

```
  id <input type="text" name="rollno"/><br>
```

```
<input type="submit" value="delete"/><br>
```

```
</form>
```

```
</body>
```

```
</html>
```

Output:



id 2345

delete

Delete php:

Code

```
<?php
    $server="localhost";
    $user="root";
    $pass="";
    $dbname="18B91A1286";
    $con =mysqli_connect($server,$user,$pass,$dbname);
    if(!$con)
    {
        die("Error : : ".mysqli_connect_error());
    }
    $sql = "delete from students where rollno= '{$_POST['rollno']}'";
    $res = mysqli_query($con,$sql);
    if($res)
    {
        $sql2="select * from students";
        $sres=mysqli_query($con,$sql2);
        echo "<h1>1891A1286_Anirudh</h1>";
        echo "<table border=1>
            <tr>
                <th>name</th>
                <th>rollno</th>
                <th>branch</th>
                <th>cgpa</th>

            </tr>";
        while($row= mysqli_fetch_array($sres))
        {
            echo "<tr>";
            echo "<td>".$row[0]."</td>";
            echo "<td>".$row[1]."</td>";
            echo "<td>".$row[2]."</td>";
            echo "<td>".$row[3]."</td>";
            echo "</tr>";
        }
        echo "</table>";
    }
}
```

```

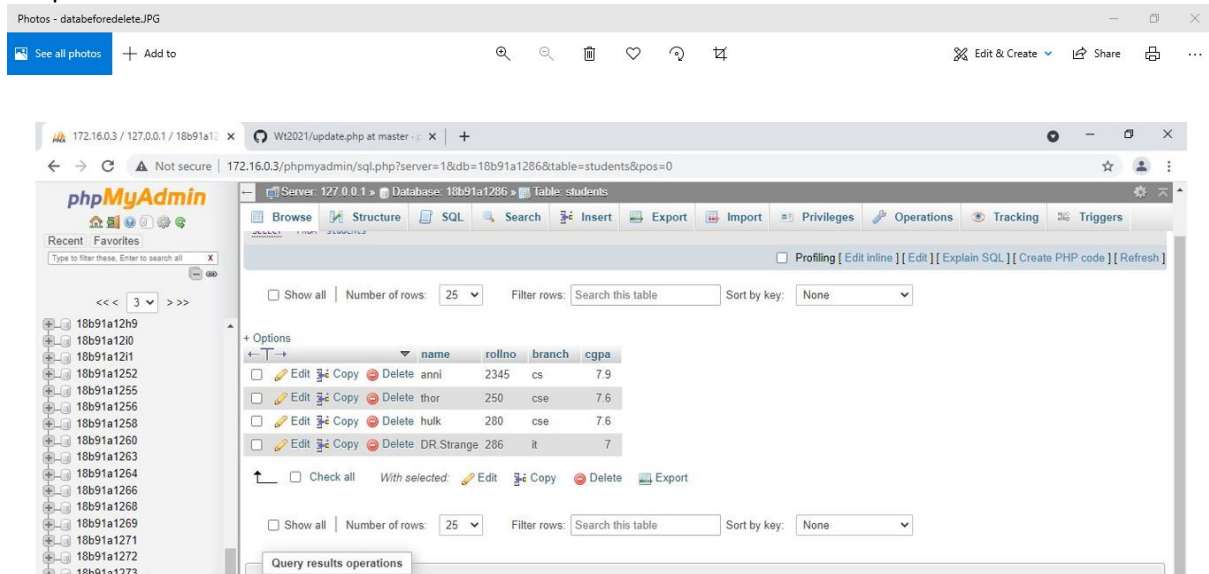
}
else
{
    echo "Issue with query";
}
mysqli_close($con);

```

?>

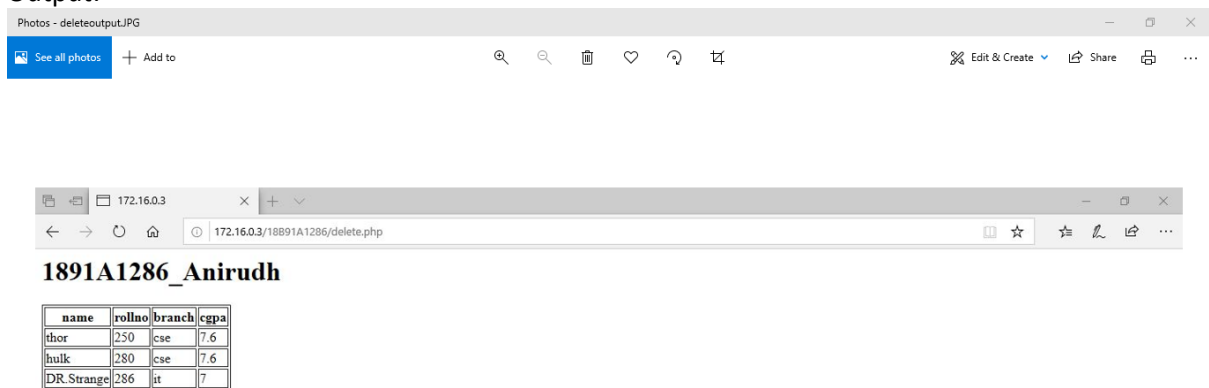
Before delete

Output:



After delete

Output:



UPDATE OPREATION:

HTML CODE:

```
<html>
  <body>
    <form action="update.php" method="post">
      ID <input type="text" name="rollno"/>
      <input type="submit" value="update"/><br>
      Name <input type="text" name="name"/><br>
    </form>
  </body>
</html>
```

Output:



Update php code:

```
<?php
  $server="localhost";
  $user="root";
  $pass="";
  $dbname="18B91A1286";
  $con =mysqli_connect($server,$user,$pass,$dbname);
  if(!$con)
  {
    die("Error : : ".mysqli_connect_error());
  }
  $sql = "UPDATE students SET name='{$_POST['name']}' WHERE rollno='{$_POST['rollno']}'";
  $res = mysqli_query($con,$sql);
  if($res)
  {
    $sql2="select * from students";
    $sres=mysqli_query($con,$sql2);
    echo "<h1>18B91A1286_Anirudh</h1>";
  }
```



```

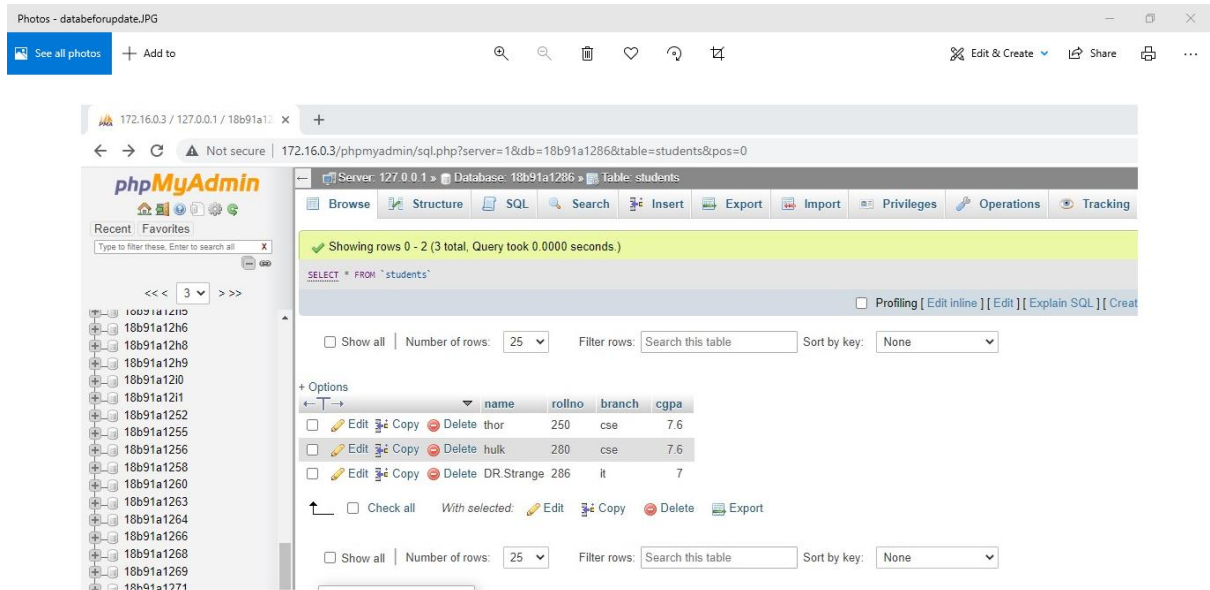
echo "<table border=1>
    <tr>
        <th>ID</th>
        <th>Name</th>
        <th>Marks</th>
    </tr>";
while($row= mysqli_fetch_array($sres))
{
    echo "<tr>";
    echo "<td>".$row[0]."</td>";
    echo "<td>".$row[1]."</td>";
    echo "<td>".$row[2]."</td>";
    echo "</tr>";
}
echo "</table>";

}
else
{
    echo "Issue with query";
}
mysqli_close($con);

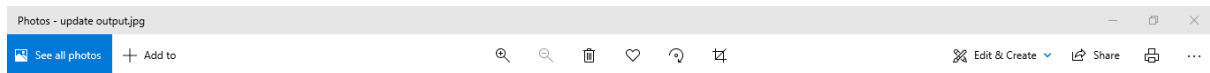
?>

```

Before update
Output :



After update:
Output:



172.16.0.3

172.16.0.3

172.16.0.3/18891A1286/update.php

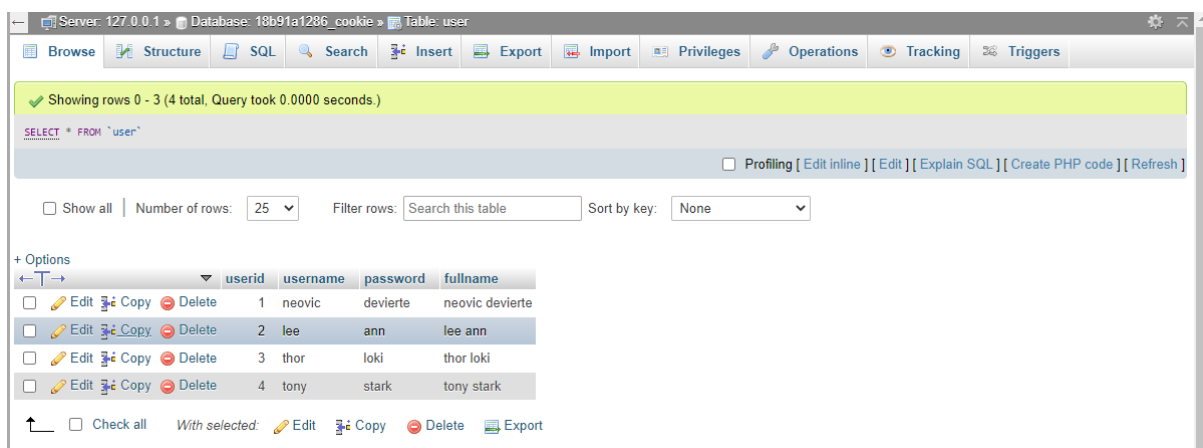
18B91A1286_Anirudh

ID	Name	Marks
thor	250	cse
hulk	280	cse
anni	286	it

Sessions and cookies:
Cookie.sql:

Code:

```
CREATE TABLE `user` (  
  `userid` int(11) NOT NULL ,  
  `username` varchar(30) NOT NULL,  
  `password` varchar(30) NOT NULL,  
  `fullname` varchar(60) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
INSERT INTO `user` (`userid`, `username`, `password`, `fullname`) VALUES  
(3,'thor','loki','thor loki'),(4,'tony','stark','tony stark');  
ALTER TABLE `user`  
  ADD PRIMARY KEY (`userid`);  
ALTER TABLE `user`  
  MODIFY `userid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;COMMIT;
```



The screenshot shows a database management interface with a toolbar at the top containing buttons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. Below the toolbar, a green status bar indicates 'Showing rows 0 - 3 (4 total, Query took 0.0000 seconds.)'. The SQL query editor shows 'SELECT * FROM `user`'. Below the query editor, there are options for Profiling, Edit inline, Edit, Explain SQL, Create PHP code, and Refresh. A filter section shows 'Show all', 'Number of rows: 25', 'Filter rows: Search this table', and 'Sort by key: None'. The main table view shows 4 rows with columns: userid, username, password, and fullname. Each row has checkboxes for Edit, Copy, and Delete. The bottom of the interface shows a 'Check all' checkbox and a 'With selected:' section with Edit, Copy, Delete, and Export options.

	userid	username	password	fullname
<input type="checkbox"/>	1	neovic	devierte	neovic devierte
<input type="checkbox"/>	2	lee	ann	lee ann
<input type="checkbox"/>	3	thor	loki	thor loki
<input type="checkbox"/>	4	tony	stark	tony stark

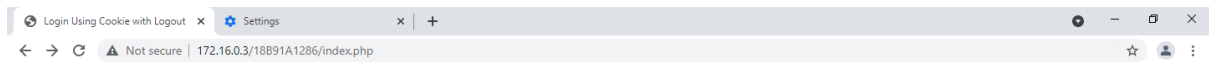
Login form:

Code:

```
<?php
session_start();
include('connect.php');
?>

<!DOCTYPE html>
<html>
<head>
<title>Login Using Cookie with Logout </title>
</head>
<body>
<h1>18B91A1286</h1>
<h2>Login Form</h2>
<form method="POST" action="login.php">
<label>Username:</label> <input type="text" value="<?php if (isset($_COOKIE["user"])){echo
$_COOKIE["user"];}?>" name="username">
<label>Password:</label> <input type="password" value="<?php if (isset($_COOKIE["pass"])){echo
$_COOKIE["pass"];}?>" name="password"><br><br>
<input type="checkbox" name="remember"> Remember me <br><br>
<input type="submit" value="Login" name="login">
</form>
<span>
<?php
if (isset($_SESSION['message'])){
echo $_SESSION['message'];
}
unset($_SESSION['message']);
?>
</span>
</body>
</html>
```

Output:



18B91A1286

Login Form

Username: Password:

☒ Remember me

Login success:

Code:

```
<?php
```

```
session_start();
```

```
if (!isset($_SESSION['id']) || (trim ($_SESSION['id']) == '')) {
```

```
header('index.php');
```

```
exit();
```

```
}
```

```
include('connect.php');
```

```
$query=mysqli_query($conn,"select * from user where userid='".$_SESSION['id']."'");
```

```
$row=mysqli_fetch_assoc($query);
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Setting Up Cookie on User Login</title>
```

```
</head>
```

```
<body>
```

```
<h1>18B91A1286</h1>
```

```
<h2>Login Success</h2>
```

```
<?php echo $row['fullname']; ?>
```

```
<br>
```

```
<a href="logout.php">Logout</a>
```

```
</body>
```

Output:



18B91A1286

Login Success

thor loki
[Logout](#)

Cookies:

pass	^	X
Name		
pass		
Content		
loki		
Domain		
172.16.0.3		
Path		
/18B91A1286		
Send for		
Same-site connections only		
Accessible to script		
Yes		
Created		
Tuesday, August 31, 2021 at 10:12:04 AM		
Expires		
Thursday, September 30, 2021 at 10:58:13 AM		

User:

user	^	×
Name	user	
Content	thor	
Domain	172.16.0.3	
Path	/18B91A1286	
Send for	Same-site connections only	
Accessible to script	Yes	
Created	Tuesday, August 31, 2021 at 10:12:04 AM	
Expires	Thursday, September 30, 2021 at 10:58:13 AM	