

**WEB DESIGN TECHNOLOGIES**  
**(22CDS342)**  
**LAB PROGRAMS**

## MODULE-1 (XHTML)

### Laboratory Experiments:

1. Develop and demonstrate a XHTML file that creates a College web site with forms, frames, links, tables.
2. Design a Shopping web site using HTML and DHTML. Use Basic text Formatting, Images.
3. Design a Ticket Booking Web site using XHTML , Use various level of CSS.

## MODULE-1

### (XHTML)

1. Develop and demonstrate a XHTML file that creates a College web site with forms, frames, links, tables.

**filename: header\_frame.html**

```
<html>
  <head>
    <title> Welcome page </title>
  </head>

  <body bgcolor="skyblue">
    <marquee>
      <h1 style="color:red;"> WELCOME TO NEW HORIZON</h1>
    </marquee>
    <center>
      <p>Welcome To College Website</p>
    </center>
  </body>
</html>
```

**filename: navigation\_frame.html**

```
<html>
<head>
  <style>
    a:link{
      color: green;
    }
    a:visited{
      color: red;
    }
    a:hover{
      color: blue;
    }
    a:active{
      color: yellow;
    }
  </style>
</head>
<body>
  <center>
    <H2>HOME</H2>
    <H2>REGISTRATION</H2>
    <A HREF="registration.html" target="_blank">CLICK HERE</A>

    <H2>CONTACT US</H2>
    <A HREF="contact.html" target="_blank">CLICK HERE</A>
  </center>
</body>
</html>
```

**filename: content\_frame.html**

```
<html>
<head>
  <style>
    a:link{
      color: green;
    }
    a:visited{
      color: red;
    }
    a:hover{
      color: blue;
    }
    a:active{
      color: yellow;
    }
  </style>
</head>
<body>
  <h1>LIST OF BRANCHES</h1>
  <ul>
    <li>cse</li>
    <li>ise</li>
    <li>ds</li>
    <a href="ds.html" target="_blank">click here</a>
    <li>ec</li>
  </ul>
</body>
</html>
```

**filename: registration.html**

```
<html>
<head>
  <title>Welcome</title>
</head>
<body><center>
  <h1>Registraion Form</h1>
  <table bgcolor="gray">
    <form bgcolor="white" action="/reg.html">
      <tr><td><label>Name:</label></td><td><input type="text"></td></tr></br>
      <label><tr><td>Email:</td></label><td><input type="email"></td></tr></br>
      <tr><td><label>Contact</label></td><td><input type="number"></td></tr>
      <td><input type="submit" value="Register"></td>
      <td><input type="reset" value="clear"></td>
    </center>
  </table>
</form>
</body>
</html>
```

**filename: ds.html**

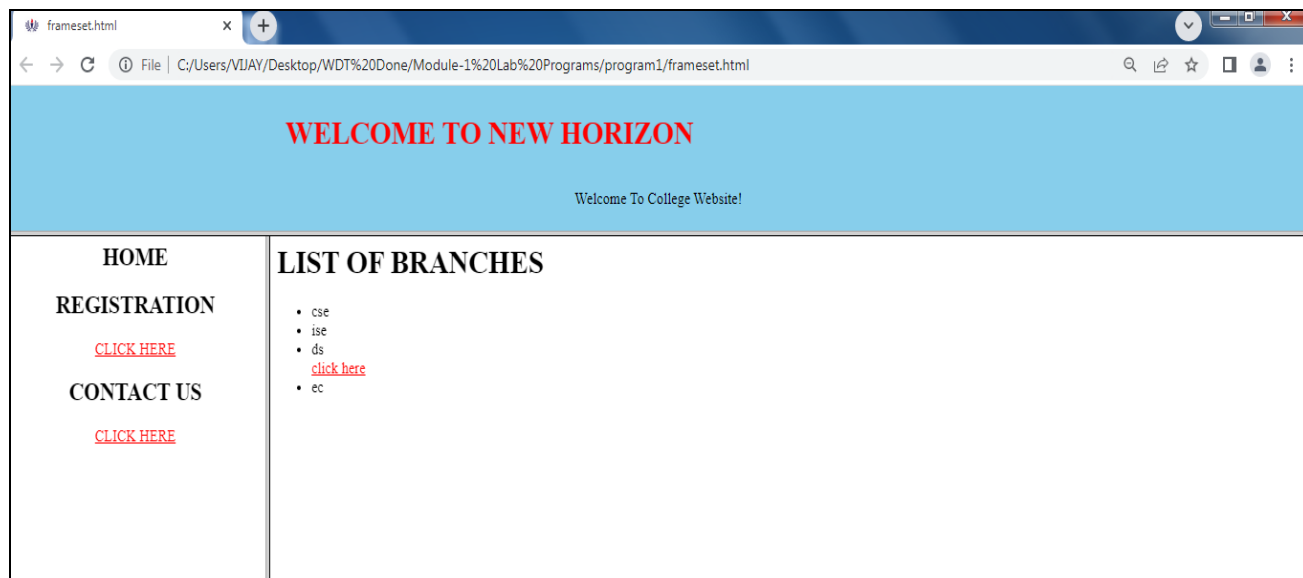
```
<html>
<head>
  <title>Class Time Table</title>
</head>
<body align="center">
  <h3>WELCOME TO DATA SCIENCE DEPARTMENT</h3>
  <table border="2" bgcolor="teal" align="center" >
    <caption>III SEM-TIMETABLE</caption>
    <tr bgcolor="lightgreen">
      <th>Day/Time</th>
      <th>9.00-10.00</th>
      <th>10.00-11.00</th>
      <th>11.00-11.10</th>
      <th>11.10-12.10</th>
      <th>12.10-1.10</th>
      <th>1.10-1.50</th>
      <th>1.50-2.50</th>
      <th>2.50-3.50</th>
      <th>3.50-4.50</th>
    </tr>
    <tr>
      <th>Mon</th>
      <td>DS</td>
      <td>DBMS</td>
      <td rowspan="2" bgcolor="pink">Tea </td>
      <td>WDT</td>
      <td>WT</td>
      <td rowspan="6" bgcolor="pink">Lunch break</td>
      <td>ST</td>
      <td>WT</td>
      <td>Mini Prj</td>
    </tr>
    <tr>
      <th>TUE</th>
      <td>WT</td>
      <td>GE</td>
      <td>WT</td>
      <td>WT</td>
      <td>OS</td>
      <td>PE</td>
      <td>Mini Prj</td>
    </tr>
    <tr>
      <th>Wed</th>
      <td colspan="3" bgcolor="yellow"><center>WT/DB LAB BATCH1/2 </td>
      <td>MATH</td>
      <td>PE</td>
      <td>SMS</td>
      <td>ST</td>
      <td>Mini Prj</td>
    </tr>
  </table>
```

```

<tr>
    <th>Thur</th>
    <td>OS</td>
    <td>MATH</td>
    <td rowspan="2" bgcolor="pink">Break</td>
    <td>ST</td>
    <td>MATH</td>
    <td COLSPAN =3 bgcolor="yellow"><center>WT/DB LAB BATCH1/2 </td>
</tr>
<tr>
    <th>Friday</th>
    <td>PE</td>
    <td>MATH</td>
    <td>PE</td>
    <td>PE</td>
    <td>OS</td>
    <td>PE</td>
    <td>Mini Prj</td>
</tr>
</table>
</body>
</html>

```

## **OUTPUT:**



Class Time Table

File | C:/Users/VIJAY/Desktop/WDT%20Done/Module-1%20Lab%20Programs/program1/d...

## WELCOME TO DATA SCIENCE DEPARTMENT

### III SEM-TIMETABLE

Day/Time	9.00-10.00	10.00-11.00	11.00-11.10	11.10-12.10	12.10-1.10	1.10-1.50	1.50-2.50	2.50-3.50	3.50-4.50
Mon	DS	DBMS	Tea	WDT	WT	Lunch break	ST	WT	Mini Prj
TUE	WT	GE		WT	WT		OS	PE	Mini Prj
Wed	WT/DB LAB BATCH1/2			MATH	PE		SMS	ST	Mini Prj
Thur	OS	MATH	Break	ST	MATH		WT/DB LAB BATCH1/2		
Friday	PE	MATH		PE	PE		OS	PE	Mini Prj

Welcome

File | C:/Users/VIJAY/Desktop...

### Registration Form

Name:

Email:

Contact:

contact.html

File | C:/Users/VIJAY/Desktop...

## Welcome to Our College!

---

Contact us @:9876543210

Mail us @:info@abc.com

## 2. Design a Shopping web site using HTML and DHTML. Use Basic text Formatting, Images.

**filename: home.html**

```
<html>
<head>
    <title>The World of Cosmetics!</title>
</head>

<body>
<center >
<table bgcolor="skyblue" border=1>
    <tr>
        <td colspan="3"><h3>Welcome to <font color="red">"The World of Cosmetics
!"</font></h3></td>        <td>
            <form action="http://www.google.com/search" method="GET">
                <input type="text" name="q" placeholder="Google Search">
                <input type="submit" value="Search">
            </form>
        </td>
    </tr>

    <tr>
        <td><a href="aboutUs.html">About Us </a></td>
        <td><a href="home.html">Home </a></td>
        <td><a href="contactUs.html">Contact Us </a></td>
    </tr>
</table>
<br/>

<table border=1>
    <tr><td><img src='img/kid.jpeg' alt='kids costume image' /></td>
    <td><a href="kids.html">Kids collection</a></td></tr>

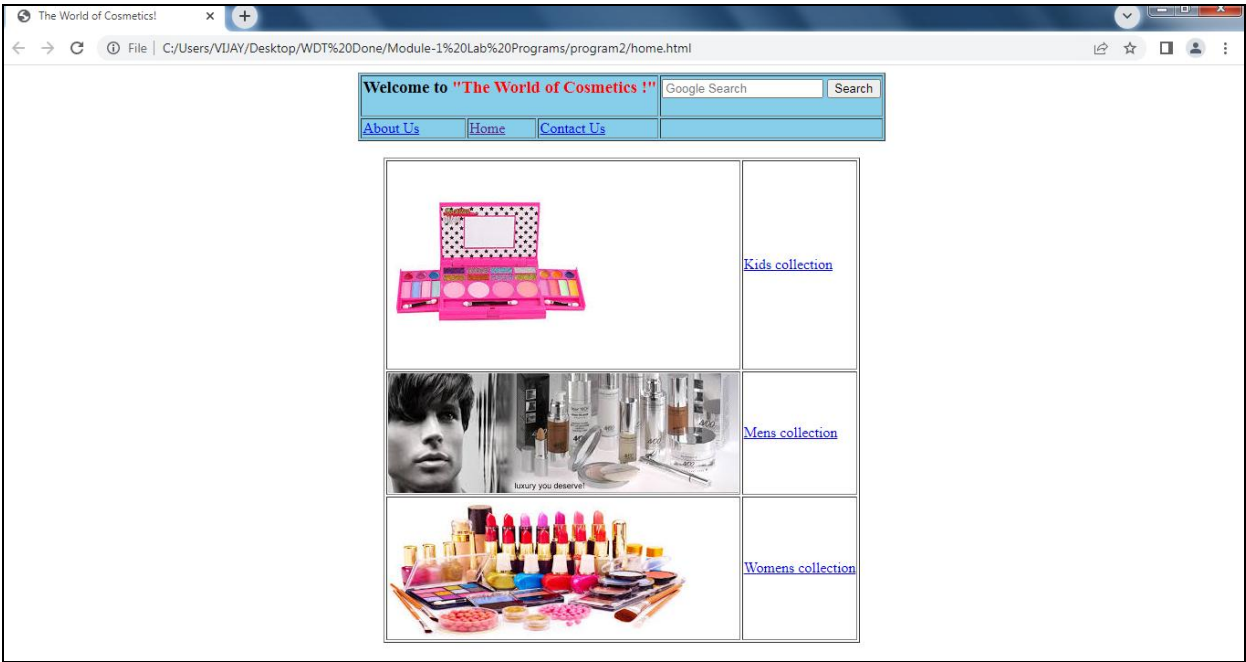
    <tr><td><img src='img/men.jpeg' alt='Mens costume image' /></td>
    <td><a href="mens.html">Mens collection</a></td></tr>

    <tr><td><img src='img/women.jpeg' alt='Womens costume image' /></td>
    <td><a href="womens.html">Womens collection</a></td></tr>
</table>

</center>
</body>
</html>
```



**OUTPUT:**



### 3. Design a Ticket Booking Web site using XHTML , Use various level of CSS.

**filename: bookmyshow.html**

```
<html>
<head>
  <title> Ticket Booking Web site using various level of CSS </title>
  <link rel="stylesheet" href="style.css" type="text/css"/>
  <style>
    h1{
      color:red;
    }
  </style>
  <script language="javascript" type="text/javascript">

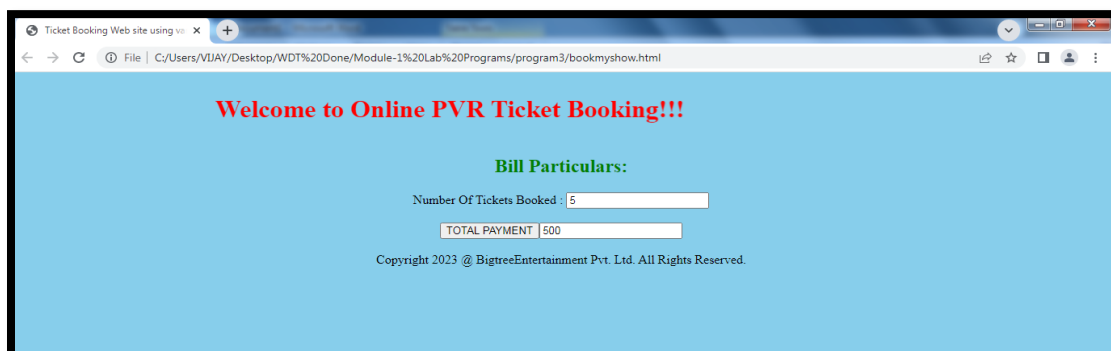
    function total(){
      var a,b;
      a=Number(document.getElementById("first_textbox").value);
      b= a*100;
      document.getElementById("answer").value= b;
    }
  </script>
</head>
<body>
  <marquee><h1> Welcome to Online PVR Ticket Booking!!!</h1></marquee>
  <center>

    <h2 style="color:green;">Bill Particulars:</h2>
    Number Of Tickets Booked : <input type="number" id="first_textbox" > <br/><br/>
    <button onclick="total()">TOTAL PAYMENT</button><input type="text"
id="answer"><br/><br/>
    Copyright 2023 @ BigtreeEntertainment Pvt. Ltd. All Rights Reserved.
  </body>
</html>
```

**File: style.css**

```
body{
  background-color: skyblue;
}
```

**OUTPUT:**



**MODULE-2**  
**(HTML-5)**

**Laboratory Experiments:**

1. Develop and demonstrate a XHTML file with Canvas and local storage concepts.
2. Develop and demonstrate XHTML Sections.
3. Develop and demonstrate a XHTML file that creates a Computer Science Book repository website with XHTML forms. When a user enters the specific book with an ID or Title the contents of the book to be retrieved.

## MODULE-2

### (HTML-5)

1. Develop and demonstrate a XHTML file with Canvas, local storage concepts.
2. Demonstrate XHTML Sections.

**filename: 3\_1a\_fib.html**

```
<!DOCTYPE html>
<html>
<head>
</head>
  <body bgcolor=skyblue>

    <header>
      <h1 align="center"><span style="color:red">User Registration Form</span></h1>
    </header>

    <nav>
      <a href="https://www.w3schools.com/html/html5_intro.asp">HTML5 L1</a>|
      <a href="https://www.tutorialspoint.com/html5/index.htm">HTML5 L2</a>|
      <a href="https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/HTML5">HTML5 L3</a>
    </nav>

<section>
  <article>
    <h2> Participant Particulars</h2>
  </article>
<table>
<form action="abc.php">

<tr><td>Name: </td>    <td><input type="text" placeholder="eg: Alex"></td></tr>
<tr><td>Mobile: </td>    <td><input type="number" placeholder="eg: 9988776655" min="9000000000" max="9999999999"
step="1"></td></tr> <!--HTML5 Input Tag-->
<tr><td>e-mailId:</td>    <td><input type="email" placeholder="eg: abc@gmail.com"></td></tr> <!--HTML5 Input Tag-->
<tr><td>Password: </td>    <td><input type="password" placeholder="eg: P@&&w0rd"></td></tr>
<tr><td>Blogspot URL: </td>    <td><input type="url" name="URL"></td></tr>
<tr><td>CGPA: (1 to 10) </td>    <td><input type="range" name="Range" min="1" max="10" required></td></tr>
<tr><td>Login Time: </td>    <td><input type="time" name="Time" min="00:00" max="23:59"></td></tr>
<tr><td></td>    <td><input type="submit" value="register"></td></tr>
</form>
</table>
</section>
<section>
  <h2>Events</h2>
  <article>
    <h3>Academic Events</h3>
    <p>Includes Internal & External Assessment </p>
  </article>

  <article>
    <h3>co-curricular Events</h3>
    <p>Includes Sports & Cuktural Events </p>
  </article>
</section>
  <aside style="font-size:larger;font-style:italic;color:red;float:right;width:130px">
    I welcome Everyone!!!
    <a href="http://www.google.com">click here</a>
  </aside>
```

```

<audio controls>
  <source src="Bells.mp3" type="audio/mpeg">
  Your browser does not support the audio tag.
</audio>

<video width="320" height="240" controls>
  <source src="Video.mp4" type="video/mp4">
  Your browser does not support the video tag.
</video>

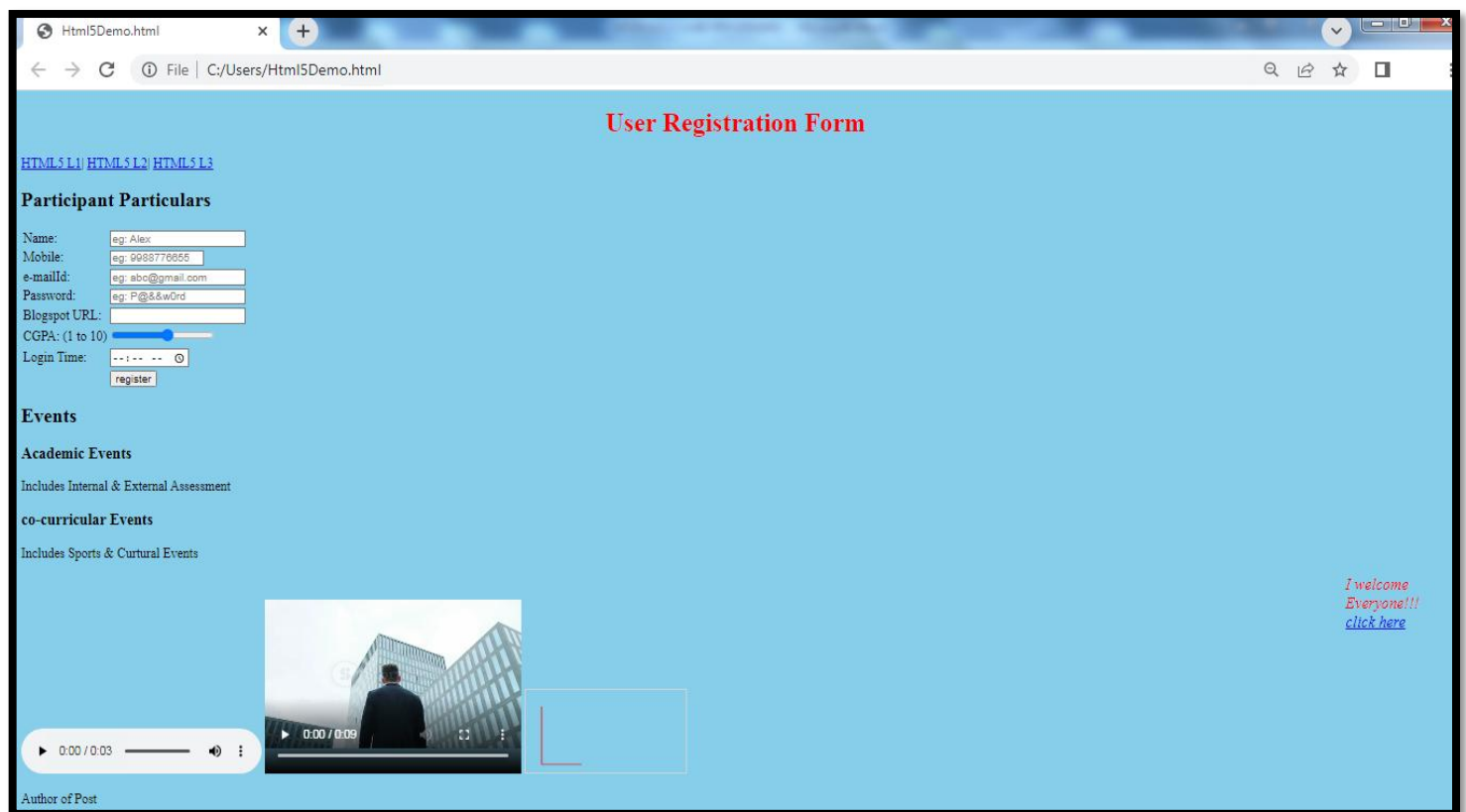
<canvas id="myCanvas" width="200" height="100" style="border:1px solid #d3d3d3;">
  Your browser does not support the HTML5 canvas tag.</canvas>

<script>
  var c = document.getElementById("myCanvas");
  var ctx = c.getContext("2d");
  ctx.moveTo(0,0);
  ctx.lineTo(200,100);
  ctx.stroke();
</script>

<footer>
  <p>Author of Post</p>
</footer>
</body>
</html>

```

### **OUTPUT:**



3. Develop and demonstrate a XHTML file that creates a Computer Science Book repository website with XHTML forms. When a user enters the specific book with an ID or Title the contents of the book to be retrieved.

**filename: CSBR1.html**

```
<html>
<head>
  <title>Computer Science Book Repository</title>
</head>
<body>
  <h1>Computer Science Book Repository</h1>

  <form id="bookForm" onsubmit="retrieveBook(); return false;">
    Enter Book ID:
    <input type="text" id="bookId" required />

    <input type="submit" value="Retrieve Book Details" />

  </form>

  <div id="bookDetails"></div>

  <script>

    function retrieveBook()
    {
      var book_Id = document.getElementById('bookId').value;

      // Book details retrieval.
      var bookDetails = getBookDetails(book_Id);

      // Display the book details
      displayBookDetails(bookDetails);
    }

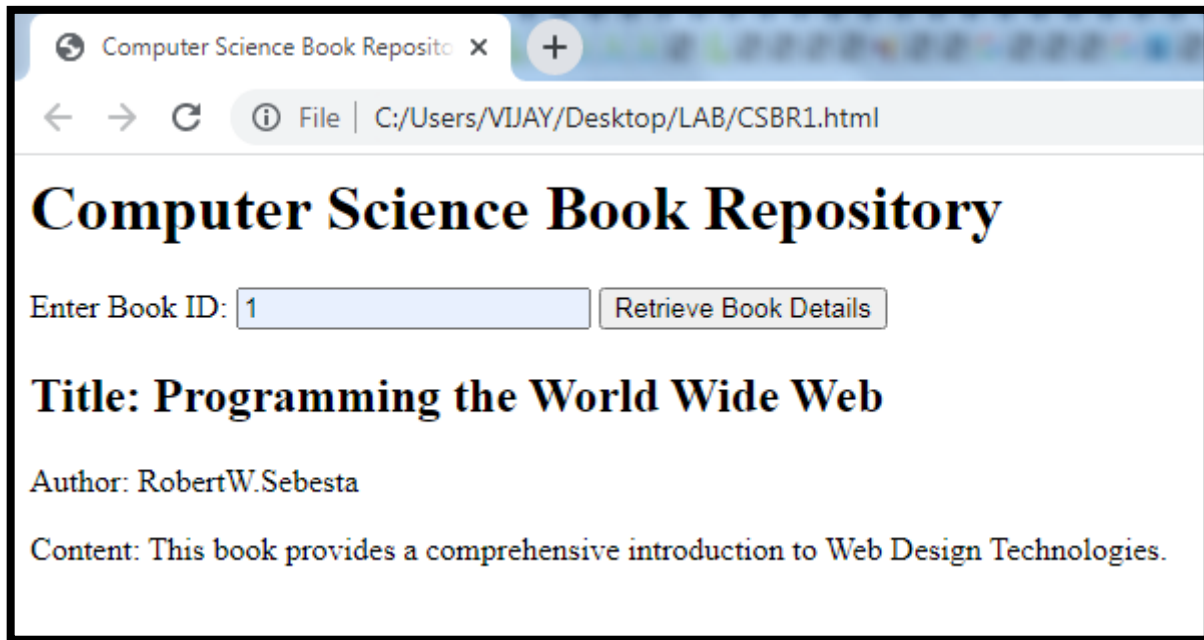
    function getBookDetails(bookId) {

      // For simplicity, we'll return a hardcoded object for a specific book ID.
      if (bookId == '1') {
        return {
          title: 'Programming the World Wide Web',
          author: 'RobertW.Sebesta',
          content: 'This book provides a comprehensive introduction to Web Design Technologies.'
        };
      } else {
        return {
          title: 'Book Not Found',
          author: 'NA',
          content: 'Sorry, the book with the specified title was not found.'
        };
      }
    }

    function displayBookDetails(bookDetails) {
      var detailsContainer = document.getElementById('bookDetails');
      detailsContainer.innerHTML = '<h2>' + 'Title: ' + bookDetails.title + '</h2>' +
        '<p>Author: ' + bookDetails.author + '</p>' +
        '<p>Content: ' + bookDetails.content + '</p>';
    }
  </script>
</body>
</html>
```

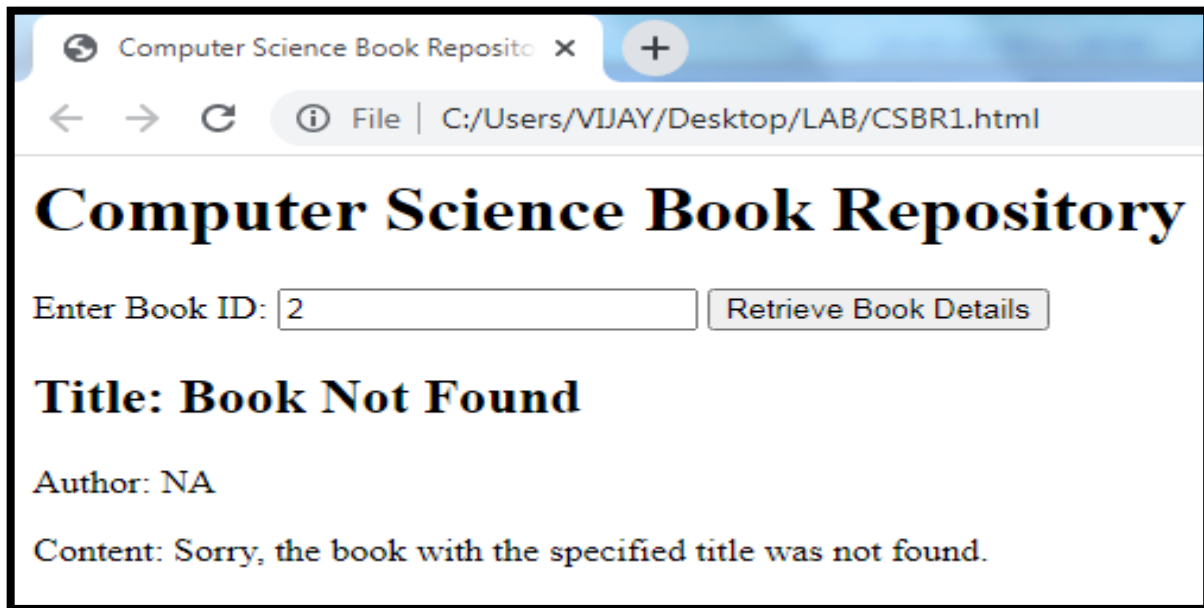
## OUTPUT:

Execution with Book ID: 1



The screenshot shows a web browser window with the title 'Computer Science Book Repository'. The address bar displays 'File | C:/Users/VIJAY/Desktop/LAB/CSBR1.html'. The main content area has the heading 'Computer Science Book Repository' in a large, bold, serif font. Below the heading, there is a form with the label 'Enter Book ID:' followed by a text input field containing the number '1'. To the right of the input field is a button labeled 'Retrieve Book Details'. Below the form, the results are displayed: 'Title: Programming the World Wide Web', 'Author: RobertW.Sebesta', and 'Content: This book provides a comprehensive introduction to Web Design Technologies.'

Execution with Book ID: 2



The screenshot shows the same web browser window as before, but with the text input field containing the number '2'. The 'Retrieve Book Details' button is still present. Below the form, the results are different: 'Title: Book Not Found', 'Author: NA', and 'Content: Sorry, the book with the specified title was not found.'

## MODULE-3 (JAVASCRIPT)

### Laboratory Experiments:

1. Develop and demonstrate a XHTML file that includes Javascript script for the following problems:

a) INPUT: A number n obtained using prompt

OUTPUT: The first n Fibonacci numbers

b) INPUT: A number n obtained using prompt

OUTPUT: A table of numbers from 1 to n and their squares using alert box.

2. a) Develop and demonstrate, using Javascript script, a XHTML document that collects the USN ( the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8)

3. a) Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.

b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.



## MODULE-3 (JAVASCRIPT)

1. Develop and demonstrate a XHTML file that includes Javascript script for the following problems:

a) Input: A number n obtained using prompt

Output: The first n Fibonacci numbers

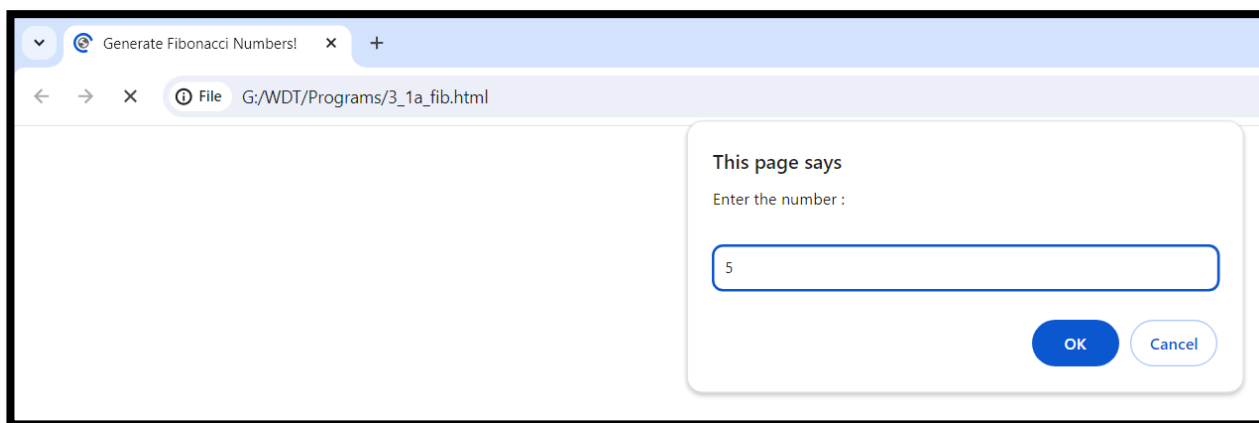
b) Input: A number n obtained using prompt

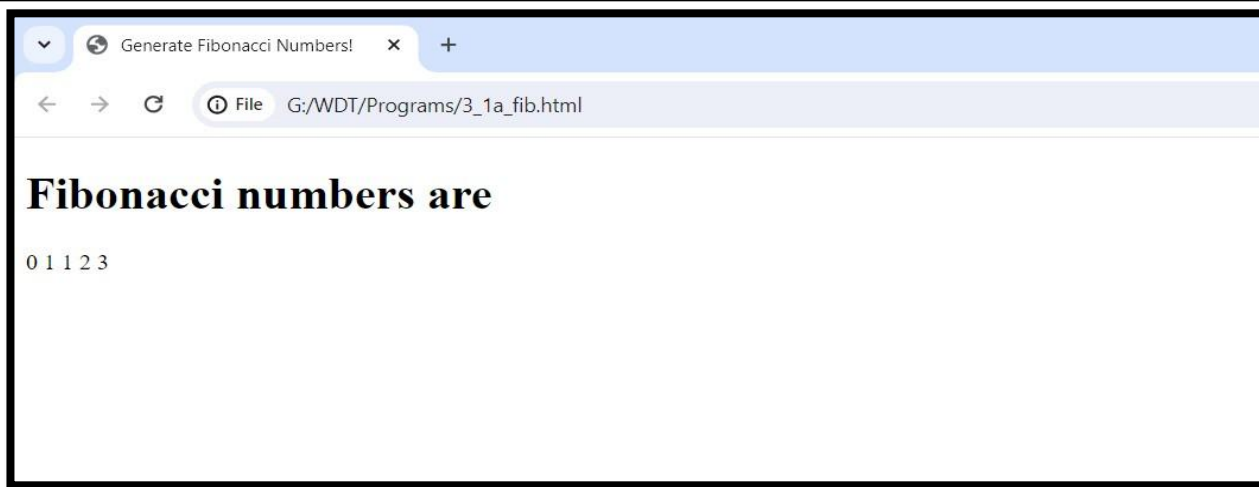
Output: A table of numbers from 1 to n and their squares using alert box.

**filename:** 3\_1a\_fib.html

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/XHTML11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title>Generate Fibonacci Numbers! </title>
</head>
<body>
    <script type="text/javascript">
        var fib=0, fib1=0, fib2=1;
        var num=prompt("Enter the number : \n", " ");
        if (num!=null && num>0)
        {
            document.write("<h1>Fibonacci numbers are <br/></h1>");
            if (num==1)
                document.write(fib1);
            else
                document.write(fib1 + " " + fib2);
            for (i=3; i<=num; i++)
            {
                fib=fib1+fib2;
                document.write(" " + fib );
                fib1=fib2;
                fib2=fib;
            }
        }
        else
            alert("No proper input");
    </script>
</body>
</html>
```

**OUTPUT:**





**filename: 3\_1b\_sq\_num.html**

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/XHTML11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title>Sequence Of Number Squares! </title>
</head>
<body>

    <script language="javascript" type="text/javascript">                                //Script to print squares using alert box
        var num=window.prompt("Enter a number : \n"," ");
        var msg="Numbers and its squares are : \n";
        if (num!=null && num>0){
            for (i=1;i<=num;i++){
                msg=msg + i + " - " + i*i + "\n";
                //alert(msg);
            }
            alert(msg);
        }
        else
            alert("No input supplied");
    </script>

    <script language="javascript">                                //Script to print squares using a table
        //input
        var n=prompt("enter a number");
        if(n!=null && n>0){
            var i=0;
            document.write("<h1>The first " + n + " numbers and their squares are: </h1>");
            //display in a table
            document.write("<table border=1><tr><th><b>Number</b></th><th><b>Square</b></th></tr>");
            for(i=1;i<=n;i++){
                document.write("<tr><td>" + i + "</td><td>" + i*i + "</td></tr>");
            }
            document.write("</table>");
        }
        else
            alert("No input");
    </script>

</body>
</html>
```

## OUTPUT:

Sequence Of Number Squares! x +

File G:/WDT/Programs/3\_1b\_sq\_num.html

This page says

Enter a number :

OK Cancel

Sequence Of Number Squares! x +

File G:/WDT/Programs/3\_1b\_sq\_num.html

This page says

Numbers and its squares are :

1 - 1  
2 - 4  
3 - 9  
4 - 16

OK

Sequence Of Number Squares! x +

File G:/WDT/Programs/3\_1b\_sq\_num.html

This page says

enter a number

OK Cancel

Sequence Of Number Squares! x +

File G:/WDT/Programs/3\_1b\_sq\_num.html

**The first 7 numbers and their squares are:**

Number	Square
1	1
2	4
3	9
4	16
5	25
6	36
7	49

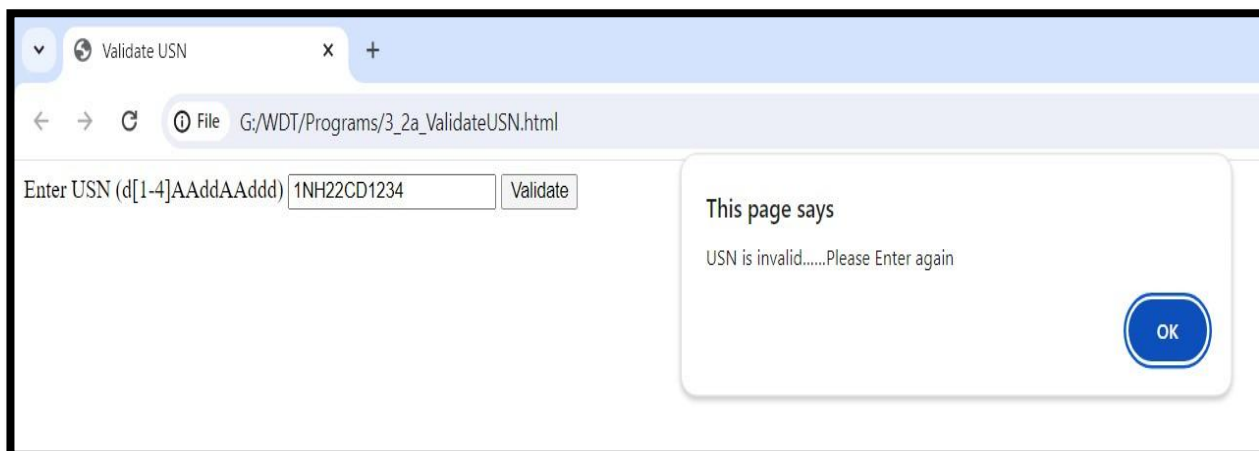
2. a) Develop and demonstrate, using Javascript script, a XHTML document that collects the USN ( the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

b) Modify the above program to get the current semester also (restricted to be a number from 1 to8)

**filename: 3\_2a\_ValidateUSN.html**

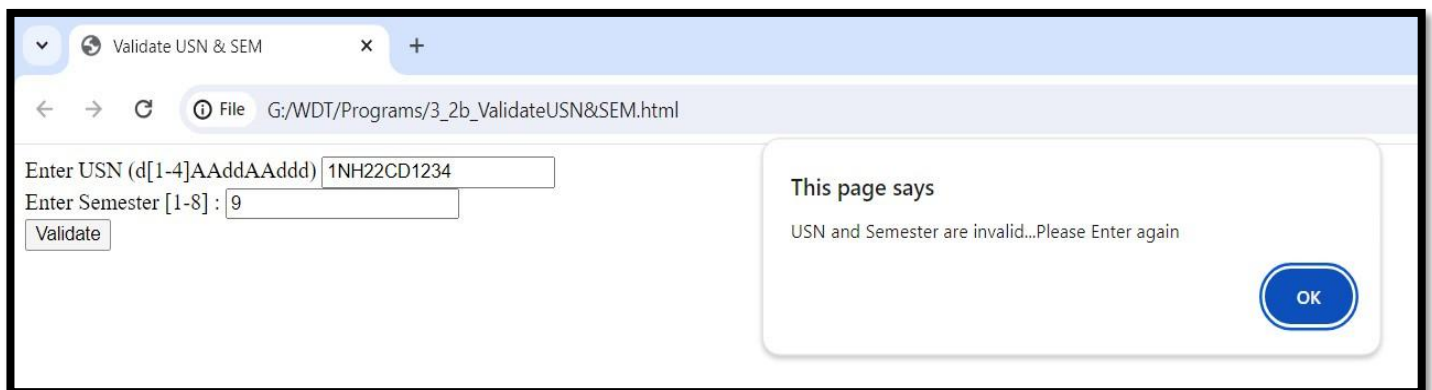
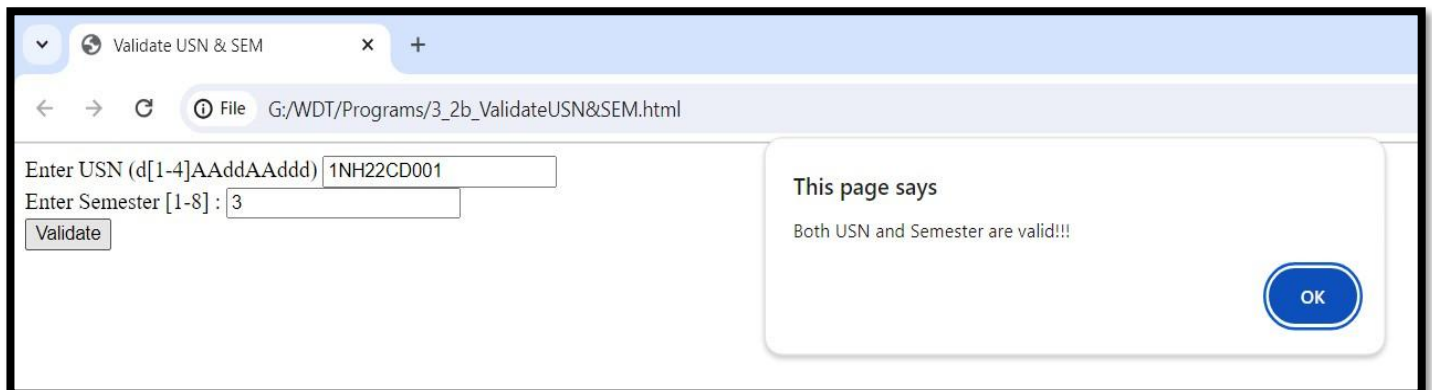
```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//w3c//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title>Validate USN</title>
    <script>
        function validate(usn){
            var pattern= /^[1-4][A-Z][A-Z][0-9][0-9][A-Z][A-Z][0-9][0-9][0-9]$/ ;
            if (!usn.match(pattern))
                alert("USN is invalid.....Please Enter again ");
            else
                alert("USN is valid!!!");
        }
    </script>
</head>
<body>
    <form>
        Enter USN (d[1-4]AAddAAddd) <input type="text" name="usn" >
        <input type="button" value="Validate" onclick='validate(usn.value);'>
    </form>
</body>
</html>
```

**OUTPUT:**



**filename: 3\_2b\_ValidateUSN&SEM.html**

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/XHTML11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Validate USN & SEM</title>
<script>
function validate(usn,sem)
{
    var pattern= /^[1-4][A-Z][A-Z][0-9][0-9][A-Z][A-Z][0-9][0-9][0-9]$/ ;
    var pattern1= /^[1-8]$/ ;
    if ( !usn.match(pattern) && !sem.match(pattern1))
        alert("USN and Semester are invalid...Please Enter again ");
    else if ( !usn.match(pattern) )
        alert("USN is invalid!!!");
    else if (!sem.match(pattern1))
        alert("Semester is invalid!!!");
    else
        alert("Both USN and Semester are valid!!!");
}
</script>
</head>
<body>
<form>
    Enter USN (d[1-4]AAddAAddd) <input type="text" name="usn" ><br/>
    Enter Semester [1-8] : <input type="text" name="sem" > <br/>
    <input type="button" value="Validate" onclick='validate(usn.value,sem.value);'>
</form>
</body>
</html>
```

**OUTPUT:**

3. a) Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.

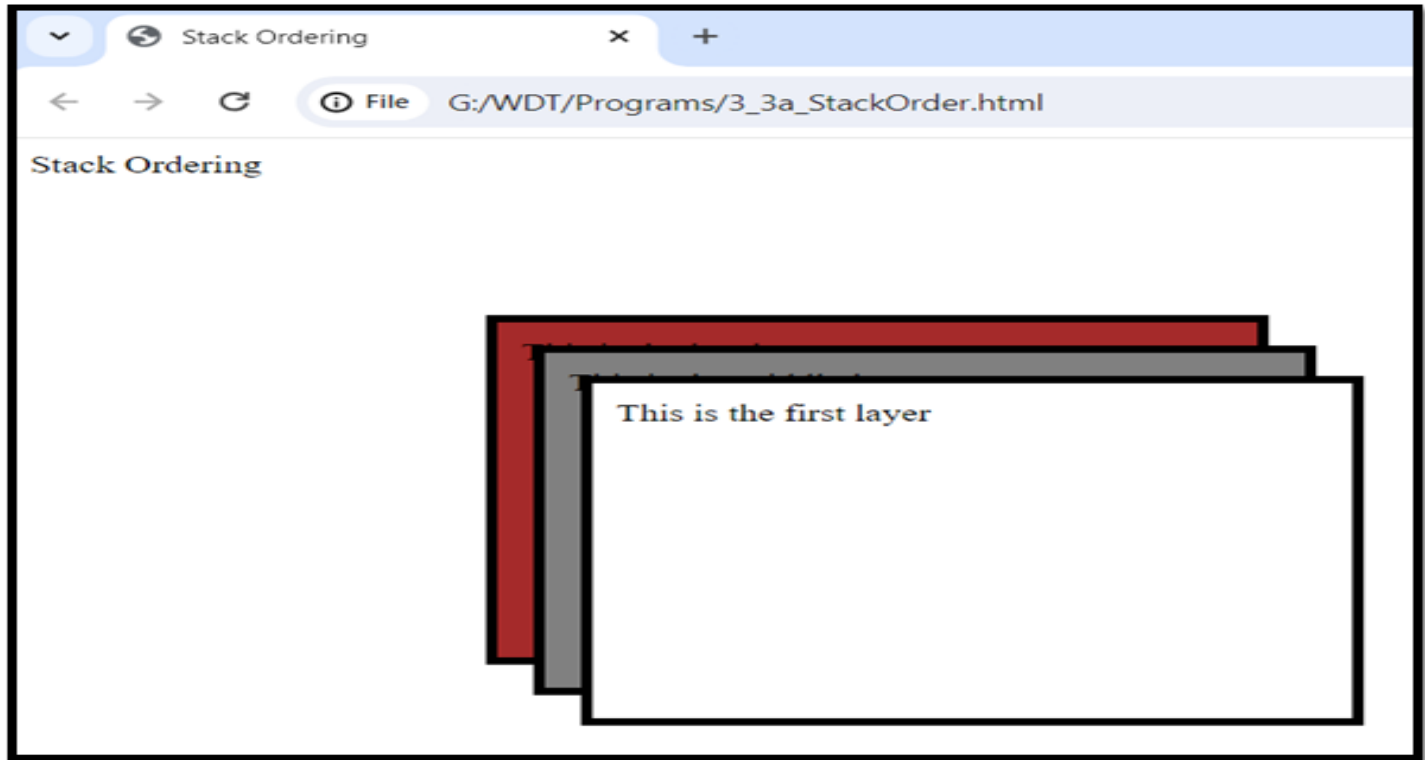
b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.

**filename: 3\_3a\_StackOrder.html**

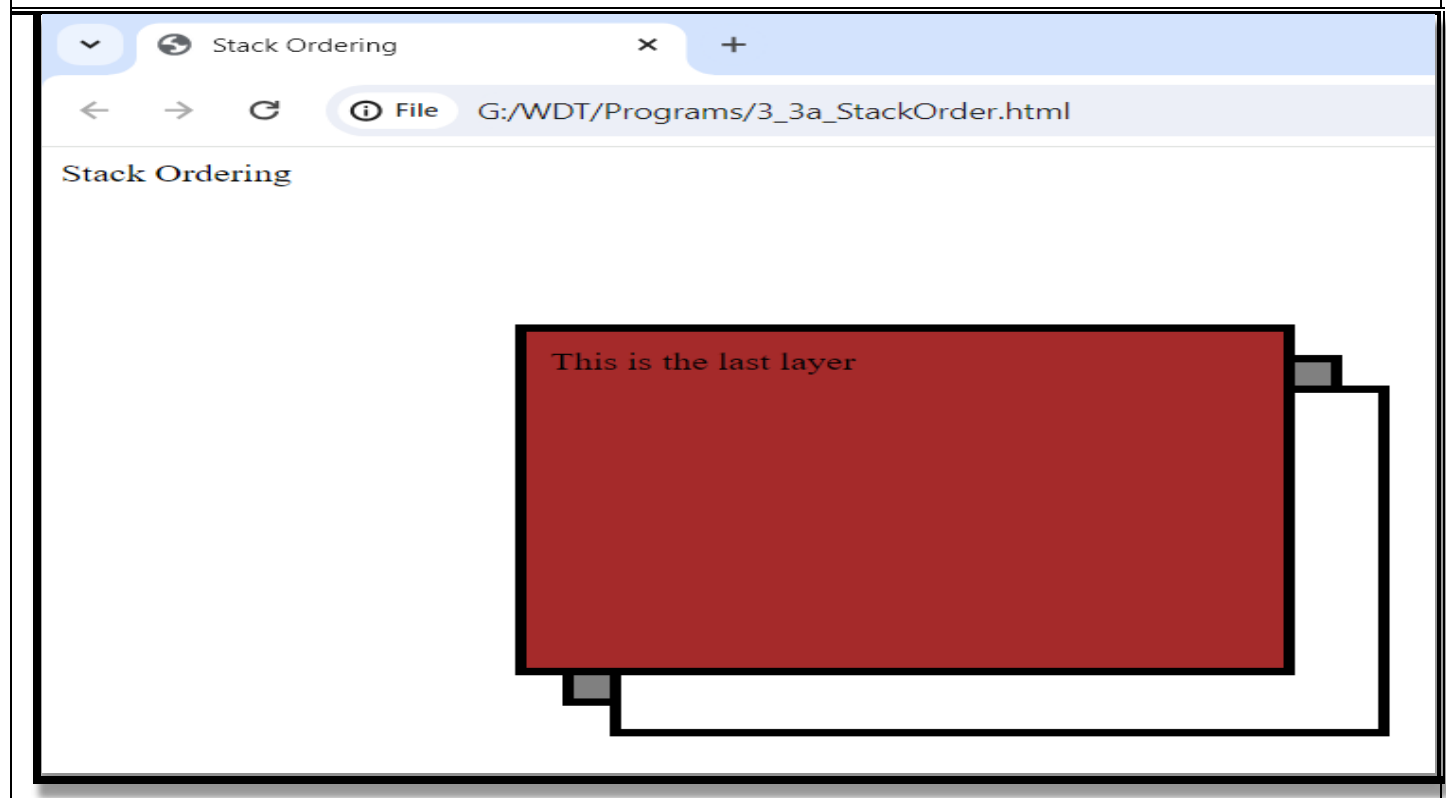
```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/XHTML11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head> <title>Stack Ordering</title>
    <!-- Define styling properties -->
    <style type="text/css">
        #layer1
        {
            border-style: solid;
            border-width: thick;
            border-color: black;
            background-color: brown;
            padding: 10px;
            width: 300px;
            height: 200px;
            position: absolute;
            top: 100px;
            left: 200px;
            z-index: 0;
        }
        #layer2
        {
            border: solid thick black;
            background-color: gray;
            padding: 10px;
            width: 300px;
            height: 200px;
            position: absolute;
            top: 120px;
            left: 220px;
            z-index: 0;
        }
        #layer3
        {
            border: solid thick black;
            background-color: white;
            padding: 10px;
            width: 300px;
            height: 200px;
            position: absolute;
            top: 140px;
            left: 240px;
            z-index: 0;
        }
    </style>
</head>
<body>
    <script type="text/javascript">
        var topLayer="layer3";
        //function to place the choosen layer on the top
        function mover(toTop){
            document.getElementById (topLayer).style.zIndex="0";
            document.getElementById(toTop).style.zIndex="1";
            topLayer=toTop;
        }
    </script>
```

```
<p id=layer1 onMouseOver=mover('layer1');>This is the last layer</p>
<p id=layer2 onMouseOver=mover('layer2');>This is the middle layer</p>
<p id=layer3 onMouseOver=mover('layer3');>This is the first layer</p>
</body>
</html>
```

### **OUTPUT:**



### **Mouse cursor on #layer1**



**filename: 3\_3b\_StackOrder\_restore.html**

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/XHTML11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>Stack Ordering with moveback
  <title>Stack Ordering with moveback</title>
  <!-- Define styling properties -->
  <style type="text/css">

    #layer1
    {
      border:solid thick black;
      background-color:brown;
      padding:10px;
      width:300px;
      height:200px;
      position:absolute;
      top:100px;
      left:200px;
      z-index:1;
    }

    #layer2
    {
      border:solid thick black;
      background-color:gray;
      padding:10px;
      width:300px;
      height:200px;
      position:absolute;
      top:120px;
      left:220px;
      z-index:2;
    }

    #layer3
    {
      border:solid thick black;
      background-color:white;
      padding:10px;
      width:300px;
      height:200px;
      position:absolute;
      top:140px;
      left:240px;
      z-index:3;
    }

  </style>

</head>
```

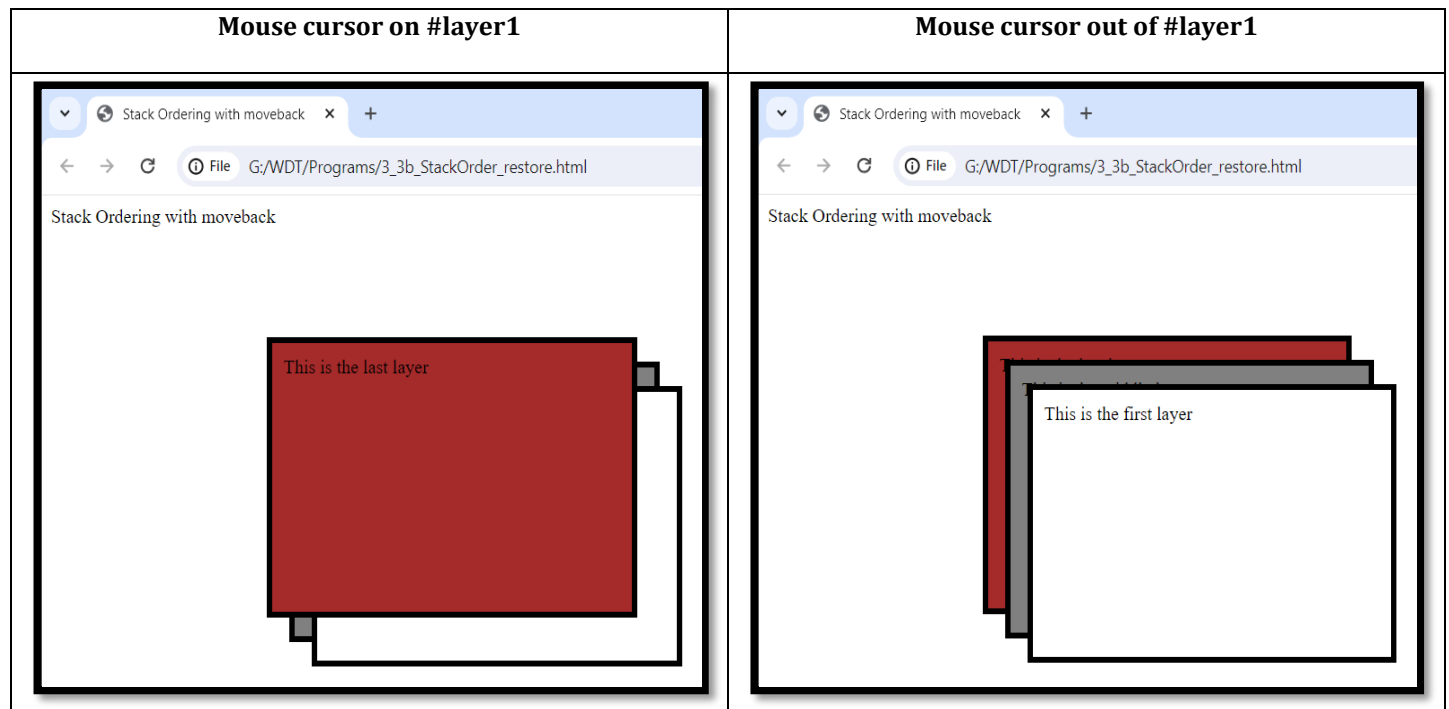


```

<body>
  <script type=text/javascript>
    var topLayer="layer3";
    var origpos;
    //function to place the choosen layer on the top
    function mover(toTop,pos)
    {
      document.getElementById(toTop).style.zIndex="4";
      topLayer=toTop;
      origpos=pos;
    }
    //function to place the choosen layer back to it's original place
    function moveBack()
    {
      document.getElementById(topLayer).style.zIndex=origpos;
    }
  </script>
  <p id=layer1 onMouseOver=mover('layer1','1'); onMouseOut=moveBack()>This is the last layer</p>
  <p id=layer2 onMouseOver=mover('layer2','2'); onMouseOut=moveBack()>This is the middle layer</p>
  <p id=layer3 onMouseOver=mover('layer3','3'); onMouseOut=moveBack()>This is the first layer</p>
</body>
</html>

```

### **OUTPUT:**



## MODULE-4 (PHP Programming)

### **Laboratory Experiments:**

1. Write a PHP program to store current date-time in a COOKIE and display the 'Last visited on' date-time on the web page upon reopening of the same page.
2. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.
3. Write a PHP program to insert name and age information entered by the user into a table created using MySQL and to display the current contents of this table.

**MODULE-4**  
**(PHP Programming)**

1. Write a PHP program to store current date-time in a COOKIE and display the 'Last visited on' date-time on the web page upon reopening of the same page.

**filename:** cookie.php

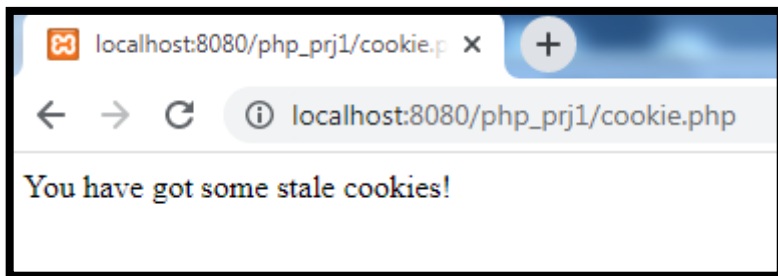
```
<?php
    $day=1;
    $x = 60*60*24*$day; // 86400 seconds in a day
    setcookie( "testcookie",date("H:i A - m/d/y") , $x+time() );
    //setcookie(name, value, expire);
    // time() returns time elapsed in seconds from Jan 1st, 1970

    if(isset($_COOKIE["testcookie"]))
    {
        $visit=$_COOKIE["testcookie"];
        echo "Your last visit was $visit " ;
    }
    else
    {
        echo "You have got some stale cookies!";
    }

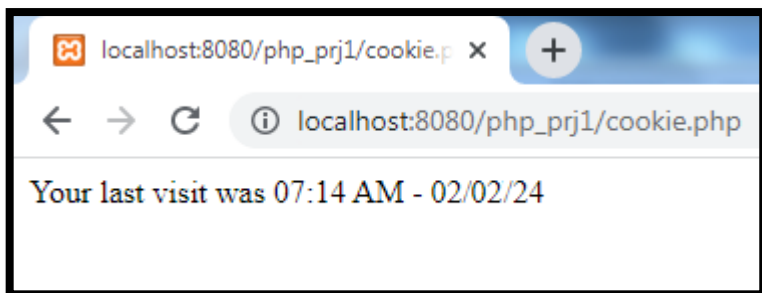
?>
```

**OUTPUT:**

**First execution of program**



**Next execution of program**



2. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

**filename:** session.php

```
<?php
```

```
session_start();
```

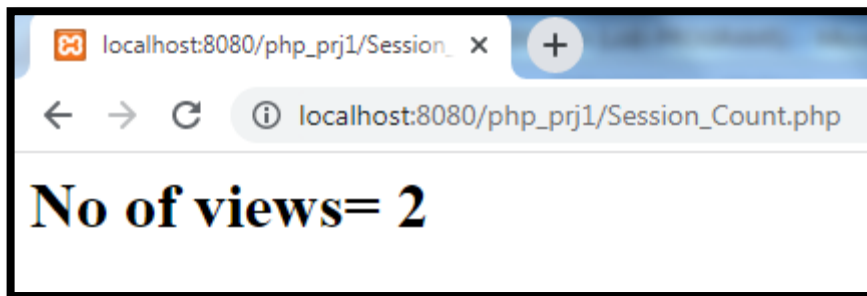
```
if(!($_SESSION['views']))  
    $_SESSION['views']=1;
```

```
else  
    $_SESSION['views']++;
```

```
echo "<h1> No of views= $_SESSION[views] </h1>";
```

```
?>
```

**OUTPUT:**



**3. Write a PHP program to insert name, email and contact information entered by the user into a table created using MySQL and to display the current contents of this table.**

**filename: home.php**

```
<html>
  <head><title> Home Page!</title>
</head>

<body>

  <h1>Registration & Display Form</h1>
  <fieldset><legend>Registration Form</legend>
    <form action=" addRecord.php " method="post">
      Username: <input type="text" name="username"><br/><br/>
      E-mail: <input type="email" name="email"><br/><br/>
      Contact: <input type="number" name="contact"><br/><br/>
      <input type="submit" value="Register">
    </form>
  </fieldset>

  <h1>Diplay DataBase Contents </h1>
  <fieldset><legend>Diplay DataBase Records</legend>
    <a href="display.php">DataBase Rows</a>
  </fieldset>
</body>
</html>
```

**filename: addRecord.php**

```
<?php
$username="root";
$password="";
$hostname = "localhost";

//connection string with database Server
$dbhandle = mysqli_connect($hostname, $username, $password)
or die("Unable to connect to MySQL ");
echo "connected to MYSQL<br/>";

// connect with database
$selectd = mysqli_select_db($dbhandle, "db1")
or die("Could not select exercise DB");

echo "connected to DB";
echo "$selectd";

$Name= $_POST['username'];
>Email= $_POST['email'];
>Contact= $_POST['contact'];

$sql="INSERT INTO t1(username,email,contact) VALUES ('$Name','$Email','$Contact')";
if(!mysqli_query($dbhandle, $sql))
{
  echo 'Not Inserted';
}
else
{
  echo "<b><br/>Inserted Data is</b>";
}
```

```
//Table starts here

// Table Code
echo "<center>";

echo "<table border='2'>";
echo "<tr><th>Name</th><th>E-Mail</th><th>Contact</th></tr>";
echo "<tr><td>$Name</td><td>$Email</td><td>$Contact</td></tr>";
echo "</center>";
//ends here
}
?>
```

### **filename: display.php**

```
<?php
    $username="root";
    $password="";
    $hostname = "localhost:3300";

//connection string with database Server
    $dbhhandle = mysqli_connect($hostname, $username, $password)
    or die("Unable to connect to MySQL ");
    echo "Connected to MYSQL<br/>";

// connect with database
    $selected = mysqli_select_db($dbhhandle, "db1")
    or die("Could not select exercise DB1");

    echo "Connected to DB1";
    echo "$selected";

    $sql="select * from t1 ";
    $records=mysqli_query($dbhhandle,$sql);
?>
<html>
<head>
<title>Complete Data! </title>

</head>
<body>
    <table border="1" cellpadding="1" cellspacing="1">
    <tr>
    <th>Username</th>
    <th>email</th>
    <th>contact</th>
    </tr>

    <?php
    //Fetch a result row as an associative array
    while ($row=mysqli_fetch_assoc($records)){
        echo "<tr>";
        echo "<td>". $row["username"]."</td>";
        echo "<td>". $row["email"]."</td>";
        echo "<td>". $row["contact"]."</td>";
        echo "</tr>";
    }
    ?>
    </table>
</body>
</html>
```

**OUTPUT:**

home.php

localhost:8080/php\_prj1/home.php

## Registration & Display Form

Registration Form

Username:

E-mail:

Contact:

## Diplay DataBase Contents

Diplay DataBase Records

[DataBase Rows](#)

display.php

Complete Data!

localhost:8080/php\_prj1/display.php

Connected to MYSQL  
Connected to DB11

Username	email	contact
amar	amar@gmail.com	9876543210

### Addition of a Record using Registration form

localhost:8080/php\_prj1/home.php

## Registration & Display Form

Registration Form

Username:

E-mail:

Contact:

## Diplay DataBase Contents

Diplay DataBase Records

[DataBase Rows](#)

localhost:8080/php\_prj1/insert.php

connected to MYSQL  
connected to DB1  
**Inserted Data is**

Name	E-Mail	Contact
Bindusara	bindusara@gmail.com	9876543211

Complete Data!

localhost:8080/php\_prj1/display.php

Connected to MYSQL  
Connected to DB1

Username	email	contact
amar	amar@gmail.com	9876543210
Bindusara	bindusara@gmail.com	9876543211



## MODULE-5 (XML)

### **Laboratory Experiments:**

1. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.
2. Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.  
.
3. Demonstrate jQuery serialize() method.

## MODULE-5

### (XML)

1. Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

**filename: 5a.xml**

```
<!DOCTYPE HTML>
<html>
  <head>
    <h1> STUDENTS DESCRIPTION </h1>
  </head>
  <students>
    <student>
      <USN>USN : 1NH22CD001</USN>
      <name>NAME : AMAR</name>
      <college>COLLEGE : NHCE</college>
      <branch>BRANCH : CSE(DataScience)</branch>
      <year>YEAR : 2022</year>
      <e-mail>E-Mail : amar@gmail.com</e-mail>
    </student>
    <student>
      <USN>USN : 1NH22CD002</USN>
      <name>NAME : BINDUSARA</name>
      <college>COLLEGE: NHCE</college>
      <branch>BRANCH : CSE(DataScience)</branch>
      <year>YEAR : 2022</year>
      <e-mail>E-Mail : bindusara@gmail.com</e-mail>
    </student>
    <student>
      <USN>USN : 1NH22CD003</USN>
      <name>NAME : CHANDRAGUPTA</name>
      <college>COLLEGE : NHCE</college>
      <branch>BRANCH : CSE(DataScience)</branch>
      <year>YEAR : 2022</year>
      <e-mail>E-Mail : chandragupta@gmail.com</e-mail>
    </student>
  </students>
</html>
```

**filename: 5a.css**

```
student{
  display:block; margin-top:10px; color:Navy;
}

USN{
  display:block; margin-left:10px;font-size:14pt; color:Red;
}

name{
  display:block; margin-left:20px;font-size:14pt; color:Blue;
}

college{
  display:block; margin-left:20px;font-size:12pt; color:Maroon;
}
```

```
branch{
    display:block; margin-left:20px;font-size:12pt; color:Purple;
}

year{
    display:block; margin-left:20px;font-size:14pt; color:Green;
}

e-mail{
    display:block; margin-left:20px;font-size:12pt; color:Blue;
}
```

**OUTPUT:**



**2. Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.**

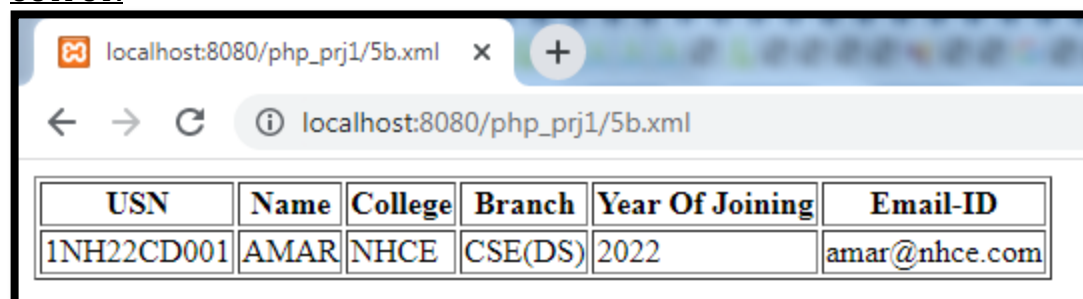
**filename: 5b.xml**

```
<?xml version="1.0" ?>
<!-- Obtain stylesheet. Note that the xml file & xsl file should be in the same directory/location -->
<?xml-stylesheet type="text/xsl" href="5b.xsl" ?>
<student>
  <info>
    <usn>1NH22CD001</usn>
    <name>AMAR</name>
    <coll>NHCE</coll>
    <branch>CSE(DS)</branch>
    <yoy>2022</yoy>
    <email>amar@nhce.com</email>
  </info>
</student>
```

**filename: 5b.xsl**

```
<?xml version="1.0"?>
<!-- create new namespace instance -->
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <!-- match all -->
  <xsl:template match="/student">
    <html>
      <!-- create table to display -->
      <table border="1">
        <tr>
          <th>USN</th><th>Name</th><th>College</th><th>Branch</th><th>Year Of Joining</th><th>Email-ID</th>
        </tr>
        <xsl:for-each select="info">
          <tr>
            <!-- get each value -->
            <td><xsl:value-of select="usn" /></td>
            <td><xsl:value-of select="name" /></td>
            <td><xsl:value-of select="coll" /></td>
            <td><xsl:value-of select="branch" /></td>
            <td><xsl:value-of select="yoy" /></td>
            <td><xsl:value-of select="email" /></td>
          </tr>
        </xsl:for-each>
      </table>
    </html>
  </xsl:template>
</xsl:stylesheet>
```

**OUTPUT:**



USN	Name	College	Branch	Year Of Joining	Email-ID
1NH22CD001	AMAR	NHCE	CSE(DS)	2022	amar@nhce.com

### 3. Demonstrate jQuery serialize() method.

**filename: 5c.html**

```
<!DOCTYPE html>
<html>
<head>
  <script src="https://code.jquery.com/jquery-1.10.2.js"></script>
  <script>
    $(document).ready(function(){
      $("button").click(function(){
        $("div").text($("#form").serialize());
      });
    });
  </script>
</head>
<body>
  <form action="">
    First name: <input type="text" name="FirstName" value="Micheal"><br/><br/>
    Last name: <input type="text" name="LastName" value="Jackson"><br/><br/>
  </form>
  <button>Serialize form values</button>
  <div></div>
</body>
</html>
```

**OUTPUT:**

