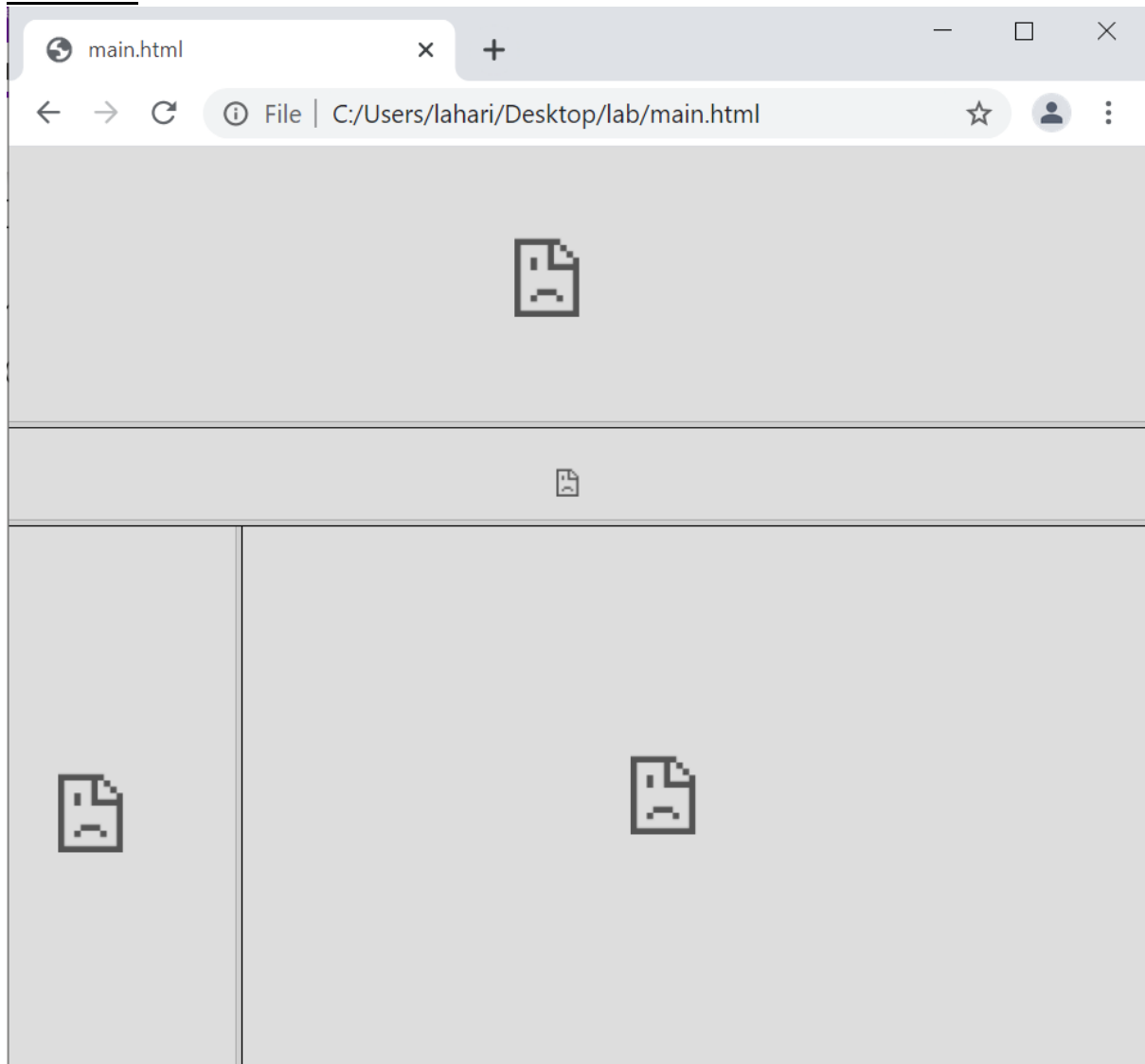


LAB-1(HTML)

main.html

```
<html>
  <frameset rows="30%,10%,*">
    <frame src="one.html"></frame>
    <frame src="two.html"></frame>
    <frameset cols="20%,*">
      <frame src="three.html"></frame>
      <frame src="four.html"></frame>
    </frameset>
  </frameset>
</html>
```

OUTPUT:



One.html

```
<html>
  <style>
```

OUTPUT:
18B91A12D6

India's Largest Online Bookstore

Fiction & Non fiction | Children books | School Books | Exam prep books | Higher Education books | Regional books in 8+ languages

```
<html>
  <body style="background-color:#eac8af;text-align:center;">
    <a href="four.html" target="four">Home</a>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
    <a href="login.html" target="four">Login</a>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
    <a href="register.html" target="four">Register</a>&nbsp; &nbsp; &nbsp; &nbsp;
&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
    <a href="#catalogue">Catalogue</a>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
    <a href="#cart">Cart</a>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;
p; &nbsp; &nbsp; &nbsp;
  </body>
</html>
```

OUTPUT:

/lahari/Desktop/lab/two.html

[Home](#)

[Login](#)

[Register](#)

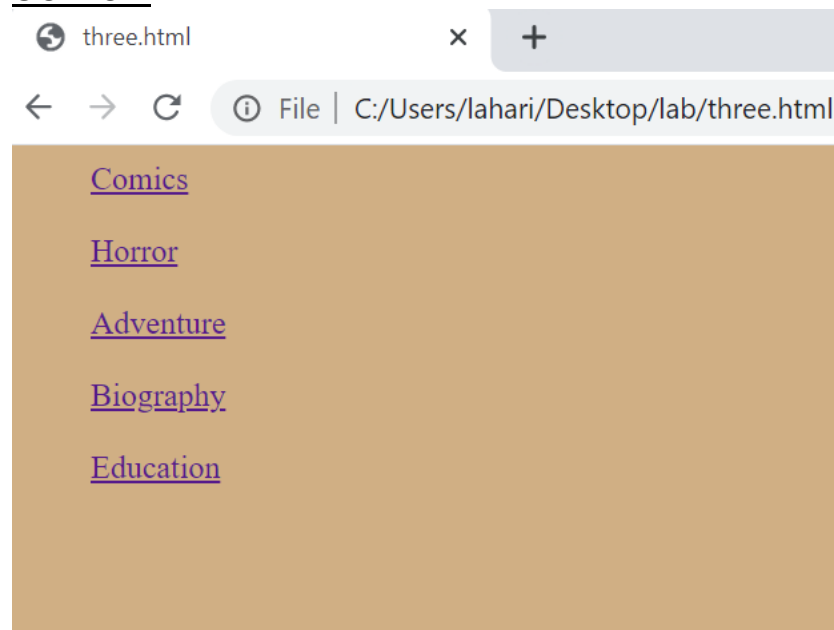
[Catlogue](#)

[Cart](#)

Three.html

```
<html>
  <body style="background-color:#d0af84;">
    <ul>
      <a href="#comics">Comics</a><br><br>
      <a href="#horror">Horror</a><br><br>
      <a href="#adventure">Adventure</a><br><br>
      <a href="#biography">Biography</a><br><br>
      <a href="#education">Education</a><br><br>
    </ul>
  </body>
</html>
```

OUTPUT:



Four.html

```
<html>
  <body style="background-color:#d8ac9c;">
    <h1 style="color:antiquewhite;"><marquee behavior="scroll" direction="
left" scrollamount=12>      India's Largest Online BookStore</marquee></h1>
```

OUTPUT:



OUTPUT:

File | C:/Users/lahari/Desktop/lab/login.html

Username:

Password:

Don't have an account? [Sign up](#)

Register.html

```
<html>
  <head>
    <title>Registration page</title>
  </head>
  <body style="background-color:#d8ac9c;">
    <div align="center" >
      <h1>Registration Form</h1>
      <form action="#" method="post">
        <table border=0 cellpadding=2 width=50%>
          <tr>
            <th>Name:</th>
            <td>
              <input type="textfield" name="text">
            </td>
          </tr>
          <tr>
            <th>Password:</th>
            <td>
              <input type="password" name="psw" pattern="(?!.*\d)(?!=
.*[a-z])(?!=.*[A-
Z]).{8,}" title="Must contain at least one number and one uppercase and lowerc
ase letter, and at least 8 or more characters" required="true">
            </td>
          </tr>
          <tr>
            <th>Email</th>
            <td>
              <input type="text" placeholder="@gmail.com">
            </td>
          </tr>
        </table>
      </form>
    </div>
  </body>
</html>
```


File | C:/Users/lahari/Desktop/lab/register.html

Registration Form


Name:

Password:

Email

Phone number:

Gender: ☐ Male ☐ Female

Date of birth: 

Languages Known: ☐ English ☐ Hindi ☐ Germany ☐ Spanish

Address:

Catalogue.html

```
<html>
  <head>
    <title></title>
  </head>
  <body style="background-color:#d8ac9c;">
    <a name="comics"></a>
    <table border=1 width=100%>
      <tr>
        <th colspan=4>Comics</th>
      </tr>
      <tr align="center">
        <td></td>
        <td>
          <b>Book:</b>3 rays <br>
          <b>Author:</b>Satyajit Ray <br>
          <b>Rating:</b>☆☆☆☆
        </td>
        <td>₹648</td>
        <td><input type="button" name="b1" value="Add to cart"></td>
      </tr>
      <tr align="center">
```

```

        <td></td>
        <td>
            <b>Book:</b>Tintin in Tibet <br>
            <b>Author:</b>Herge<br>
            <b>Rating:<b>☆☆☆☆</b>
        </td>
        <td>₹358</td>
        <td><input type="button" name="b2" value="Add to cart"></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>
            <b>Book:</b>Tinkle Digest <br>
            <b>Author:</b>Anath Pai<br>
            <b>Rating:<b>☆☆☆☆</b>
        </td>
        <td>₹350</td>
        <td><input type="button" name="b3" value="Add to cart"></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>
            <b>Book:</b>Avengers vs. Thanos<br>
            <b>Author:</b>Steve Englehart <br>
            <b>Rating:<b>☆☆☆☆☆</b>
        </td>
        <td>₹1068</td>
        <td><input type="button" name="b4" value="Add to cart"></td>
    </tr>
</table>
<a name="thriller"></a>
<table border=1 width=100%>
    <tr>
        <th colspan=4>Thriller</th>
    </tr>
    <tr align="center">
        <td></td>
        <td>
            <b>Book:</b>If Tomorrow Comes <br>
            <b>Author:</b>Sidney Sheldon<br>
            <b>Rating:<b>☆☆☆☆</b>
        </td>
        <td>₹238</td>
        <td><input type="button" name="b5" value="Add to cart"></td>
    </tr>
    <tr align="center">
        <td></td>
        <td>
            <b>Book:</b>The Text <br>
            <b>Author:</b>Claire Douglas<br>
            <b>Rating:<b>☆☆☆☆</b>
        </td>
        <td>₹263</td>
        <td><input type="button" name="b6" value="Add to cart"></td>
    </tr>

```



```

</tr>
<tr align="center">
  <td></td>
  <td>
    <b>Book:</b>The Lost Symbol <br>
    <b>Author:</b>Dan Brown<br>
    <b>Rating:</b>☆☆☆☆</td>
  <td>₹350</td>
  <td><input type="button" name="b7" value="Add to cart"></td>
</tr>
<tr align="center">
  <td></td>
  <td>
    <b>Book:</b>The girl in the room 105<br>
    <b>Author:</b>Chetan Bhagat <br>
    <b>Rating:</b>☆☆☆☆</td>
  <td>₹299</td>
  <td><input type="button" name="b8" value="Add to cart"></td>
</tr>
</table>
<a name="adventure"></a>
<table border=1 width=100%>
  <tr>
    <th colspan=4>Adventure</th>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>Harry Potter and Curse Child <br>
      <b>Author:</b>J.K Rowling<br>
      <b>Rating:</b>☆☆☆☆</td>
    <td>₹508</td>
    <td><input type="button" name="b9" value="Add to cart"></td>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>Game of Thrones<br>
      <b>Author:</b>George RR Martin<br>
      <b>Rating:</b>☆☆☆☆</td>
    <td>₹399</td>
    <td><input type="button" name="b10" value="Add to cart"></td>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>2034<br>

```

```

        <b>Author:</b>Elliot Ackerman <br>
        <b>Rating:☆☆☆☆</b>
    </td>
    <td>₹350</td>
    <td><input type="button" name="b11" value="Add to cart"></td>
</tr>
<tr align="center">
    <td></td>

d>
    <td>
        <b>Book:</b>Project Hail Mary<br>
        <b>Author:</b>Andy Weir<br>
        <b>Rating:☆☆☆☆</b>
    </td>
    <td>₹610</td>
    <td><input type="button" name="b12" value="Add to cart"></td>
</tr>
</table>

<a name="biography"></a>
<table border=1 width=100%>
    <tr>
        <th colspan=4>Biographies</th>
    </tr>
    <tr align="center">
        <td></td>

d>
        <td>
            <b>Book:</b>Wings of Fire<br>
            <b>Author:</b>A.P.J Abdul Kalam<br>
            <b>Rating:☆☆☆☆</b>
        </td>
        <td>₹508</td>
        <td><input type="button" name="b13" value="Add to cart"></td>
    </tr>
    <tr align="center">
        <td></td>

d>
        <td>
            <b>Book:</b>Three Thousand Stiches<br>
            <b>Author:</b>Sudha Murty<br>
            <b>Rating:☆☆☆☆</b>
        </td>
        <td>₹299</td>
        <td><input type="button" name="b14" value="Add to cart"></td>
    </tr>
    <tr align="center">
        <td></td>

d>
        <td>
            <b>Book:</b>The Theory of Everything<br>
            <b>Author:</b>Stephen Hawking<br>
            <b>Rating:☆☆☆☆</b>
        </td>
        <td>₹450</td>
        <td><input type="button" name="b15" value="Add to cart"></td>
    </tr>
</table>

```

```

</tr>
<tr align="center">
  <td></td>
  <td>
    <b>Book:</b>The Diary of an Young Girl<br>
    <b>Author:</b>Anne Frank<br>
    <b>Rating:</b>☆☆☆☆☆</td>
  <td>₹540</td>
  <td><input type="button" name="b16" value="Add to cart"></td>
</tr>
</table>
<a name="engineering"></a>
<table border=1 width=100%>
  <tr>
    <th colspan=4>Engineering</th>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>Introduction to ElectroDynamics<br>
      <b>Author:</b>David J.Griffiths<br>
      <b>Rating:</b>☆☆☆</td>
    <td>₹518</td>
    <td><input type="button" name="b17" value="Add to cart"></td>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>The 8081 Microcontroller<br>
      <b>Author:</b>Mohammad Ali<br>
      <b>Rating:</b>☆☆☆☆</td>
    <td>₹499</td>
    <td><input type="button" name="b18" value="Add to cart"></td>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>Cryptography and Network Security<br>
      <b>Author:</b>Forouzan <br>
      <b>Rating:</b>☆☆☆☆☆</td>
    <td>₹550</td>
    <td><input type="button" name="b19" value="Add to cart"></td>
  </tr>
  <tr align="center">
    <td></td>
    <td>
      <b>Book:</b>Web Technologies<br>

```

```

        <b>Author:</b>Uttam K Roy<br>
        <b>Rating:☆☆☆☆☆</b>
    </td>
    <td>₹610</td>
    <td><input type="button" name="b20" value="Add to cart"></td>
</tr>
</table>
</body>
</html>

```

OUTPUT:

Comics			
	Book: 3 rays Author: Satyajit Ray Rating: ☆☆☆☆	₹648	<input type="button" value="Add to cart"/>
	Book: Tintin in Tibet Author: Herge Rating: ☆☆☆☆	₹358	<input type="button" value="Add to cart"/>
	Book: Tinkle Digest Author: Anath Pai Rating: ☆☆☆	₹350	<input type="button" value="Add to cart"/>
	Book: Avengers vs. Thanos Author: Steve Englehart Rating: ☆☆☆☆☆	₹1068	<input type="button" value="Add to cart"/>

Adventure			
	Book: Harry Potter and Curse Child Author: J.K Rowling Rating: ★ ★ ★ ★ ★	₹508	Add to cart
	Book: Game of Thrones Author: George RR Martin Rating: ★ ★ ★ ★ ★	₹399	Add to cart
	Book: 2034 Author: Elliot Ackerman Rating: ★ ★ ★ ★	₹350	Add to cart
	Book: Project Hail Mary Author: Andy Weir Rating: ★ ★ ★ ★ ★	₹610	Add to cart

Engineering			
	Book: Introduction to ElectroDynamics Author: David J.Griffiths Rating: ★ ★ ★	₹518	Add to cart
	Book: The 8081 Microcontroller Author: Mohammad Ali Rating: ★ ★ ★ ★	₹499	Add to cart
	Book: Cryptography and Network Security Author: Forouzan Rating: ★ ★ ★ ★ ★	₹550	Add to cart
	Book: Web Technologies Author: Uttam K Roy Rating: ★ ★ ★ ★ ★	₹610	Add to cart

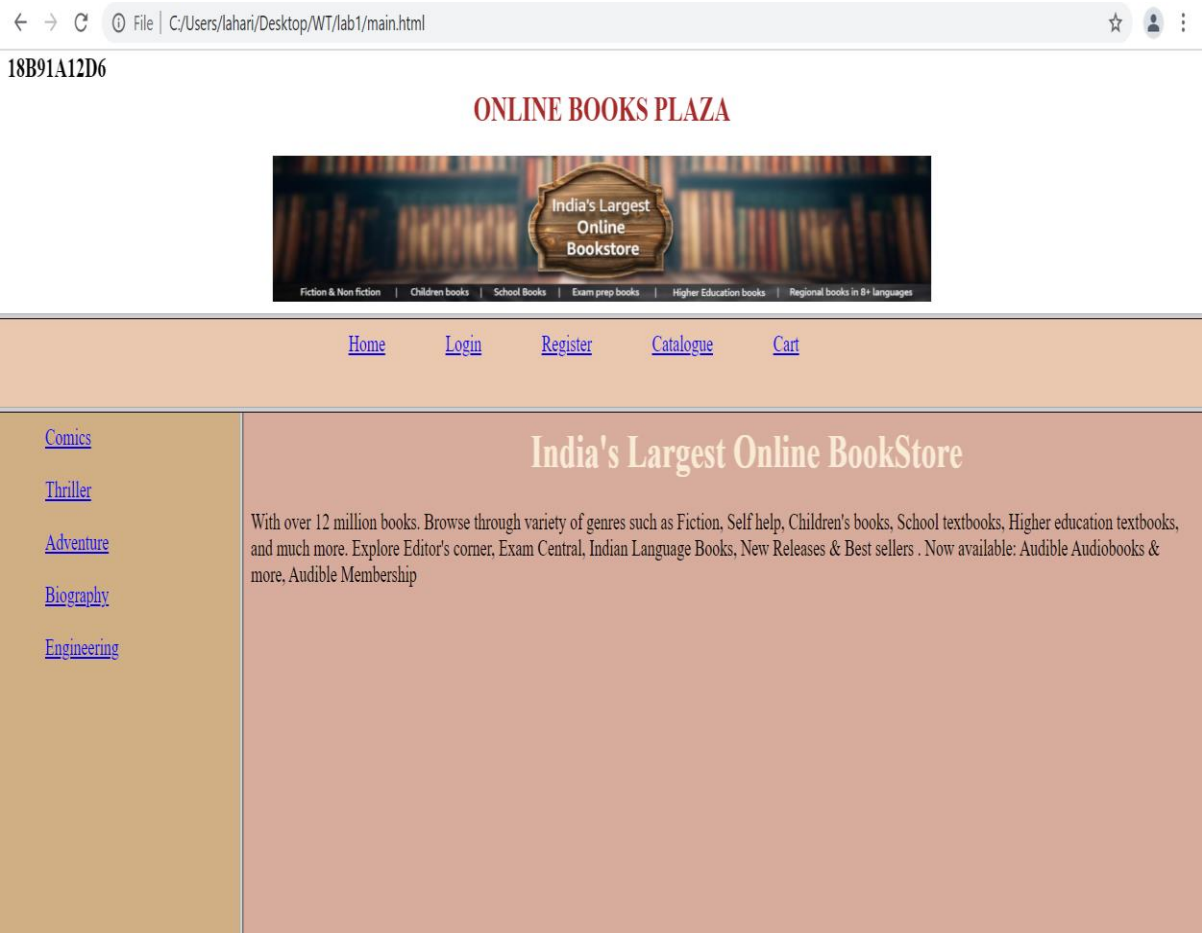
Cart.html

```
<html>
  <body style="text-align:center;background-color:#d8ac9c;">
    <center><h1 style="color:antiquewhite;">Your Cart</h1></center>
    <table border=1 width=100%>
      <tr>
        <th>BOOKS</th>
        <th>PRICE</th>
        <th>QUANTITY</th>
        <th>AMOUNT</th>
      </tr>
      <tr align="center">
        <td>If Tomorraow Comes</td>
        <td>₹238</td>
        <td>1</td>
        <td>₹238</td>
      </tr>
      <tr align="center">
        <td>Harry Potter and Curse Child</td>
        <td>₹508</td>
        <td>1</td>
        <td>₹508</td>
      </tr>
      <tr align="center">
        <td>Web Technologies</td>
        <td>₹610</td>
        <td>2</td>
        <td>₹1220</td>
      </tr>
      <tr align="center">
        <th colspan=3>Total Amount</th>
        <td>₹1966</td>
      </tr>
    </table>
  </body>
</html>
```

OUTPUT:

Your Cart			
BOOKS	PRICE	QUANTITY	AMOUNT
If Tomorraow Comes	₹238	1	₹238
Harry Potter and Curse Child	₹508	1	₹508
Web Technologies	₹610	2	₹1220
Total Amount			₹1966

Overall output



LAB-2(CSS)

DESIGN A WEB PAGE USING CSS (Cascading Style Sheets) which includes the following:

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

CSS1.html

```
<html>
<head>
  <style>
    #para
    {
      text-align: center;
      color:palevioletred;
      font-style:italic;
    }
  *{
```

```

        text-align: center;
        font-style: inherit;
        font-size: large;
    }
    h3{
        padding-left: 5%;
    }
</style>
</head>
<body>
    <h3 style="text-align:left">18B91A12D6</h3>
    <p id="para">SRKR Engineering College</p>
    <p>here we use universal selector.</p>
</body>
</html>

```

OUTPUT:

18B91A12D6

SRKR Engineering College

here we use universal selector.

CSS2.html

```

<html>
  <head>
    <title>Group selectors</title>
    <style type="text/css">
      h1,p,h2
      {
        text-align: center;
        font-style: oblique;
        color: slateblue;
      }
      h3{
        padding-left: 5%;
      }
    </style>
  </head>
  <body>
    <h3 style="text-align:left">18B91A12D6</h3>
    <h1>This is the h1 tag</h1>
    <p>This is the P tag</p>
    <h2>This is the h2 tag</h2>
  </body>
</html>

```

OUTPUT:

18B91A12D6

This is the h1 tag

This is the P tag

This is the h2 tag

CSS3.html

```
<html>
  <head>
    <style>
      p.name
      {
        text-align: center;
        color:steelblue;
      }
      p.id2
      {
        font-size: 200%;
        color:violet;
      }
      h1.id1
      {
        font-style: inherit;
        color:tomato;
      }
      h3{
        padding-left: 5%;
      }
    </style>
  </head>
  <body>
    <h3 style="text-align:left">18B91A12D6</h3>
    <h1 class="id1">This is h1 heading in tomato color and font style is i
nherit</h1>
    <p class="name">This paragraph will be steelblue and center-
aligned.</p>
    <p class="id2">This paragraph will be violet, and with a font-
size of 300%.</p>
  </body>
</html>
```

OUTPUT:

This is h1 heading in tomato color and font style is inherit

This paragraph will be steelblue and center-aligned.

This paragraph will be violet, and with a font-size of 300%.

LAB-3(JS)

Vaccine Registration

```
<html>
  <head>
    <script>
      function vaccine(){
        var name=document.forms["register"]["username"].value;
        var ages=document.forms["register"]["age"].value;
        var adharnum=document.forms["register"]["adhar"].value;
        if(name.length<5)
        {
          alert("Name must be more than 5 characters");
          return false;
        }
        else if(ages<45)
        {
          alert("Age must be above 45");
        }
        else if(adharnum.length<12)
        {
          alert("Enter a vaild adhar number");
        }
        else{
          var d1=document.getElementById("dose1");
          if(d1.checked)
          {
            alert("You are successfully booked your slot for first
dose");
          }
          var d2=document.getElementById("dose2")
          if(d2.checked)
          {
            var firstdose=prompt("Enter your first dose date");
            var parts=firstdose.split('-');
            var mydate=new Date(parts[0],parts[1]-1,parts[2]);
            console.log(mydate.getDate());
            var cdate=new Date();
            console.log(cdate.getDate());
          }
        }

        var res=document.getElementById("res")
        res.innerHTML= name+ " "+ages+ " Successfully registered";
      }
    </script>
  </head>
</html>
```

```

    }
</script>
<style>
    input[type=button]:hover{
        background-color: burlywood;
    }
</style>
</head>
<body style="background-color:bisque">
    <div align="center">
        <h3>18B91A12D6</h3>
        <h1 style="color:rgb(235, 151, 41)">Registration for Vaccine</h1>
        <form name="register">
            <table border=0 cellpadding=1 width=50%>
                <tr>
                    <th>Name</th>
                    <td>
                        <input type="textfield" name="username">
                    </td>
                </tr>
                <tr>
                    <th>Age</th>
                    <td>
                        <input type="text" name="age">
                    </td>
                </tr>
                <tr>
                    <th>DOB</th>
                    <td>
                        <input type="date">
                    </td>
                </tr>
                <tr>
                    <th>Adhar Number</th>
                    <td>
                        <input type="text" name="adhar">
                    </td>
                </tr>
                <tr>
                    <th>Vaccine</th>
                    <td>
                        <input type="radio" id="dose1" name="vac" value="dose1">
                        <label for="dose1">First dose</label>
                        <input type="radio" id="dose2" name="vac" value="dose2">
                        <label for="dose2">Second dose</label>
                    </td>
                </tr>
            </table>
            <div align="center">
                <input type="button" id="txt" onClick="vaccine()" value="Register">
                <input type="button" value="Reset">
            </div>
        </form>
    </div>

```

```
        </form>
    </div>
    <p id="res"></p>
</body>
</html>
```

lahari/Desktop/WT/lab3/vaccineregister.html

This page says

You are successfully booked your slot for first dose

OK

Age

48

DOB

03 - 06 - 2001



Adhar Number

123456789098

Vaccine



First dose



Second dose

Register

Reset

18B91A12D6

Registration for Vaccine

Name

John Deo

Age

48

DOB

03 - 07 - 1994



Adhar Number

876550938714

Vaccine



First dose



Second dose

Register

Reset

John Deo 48 Successfully registered

This page says

Enter first dose Date (yyyy-mm-dd)

2021-04-10

OK

Cancel

DOB

03-06-2001



Adhar Number

123456789098

Vaccine



First dose



Second dose

Register

Reset

This page says

Successfully registered for second dose

OK

Age

48

DOB

03-06-2001



Adhar Number

123456789098

Vaccine



First dose



Second dose

Register

Reset

LAB-4(XML)

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"?>
<!DOCTYPE book [
    <!ELEMENT book (bookinfo+) >
    <!ELEMENT bookinfo (title,author,ISBN,publisher,edition,price)>
    <!ELEMENT title (#PCDATA) >
    <!ELEMENT author (#PCDATA) >
    <!ELEMENT ISBN (#PCDATA) >
    <!ELEMENT publisher (#PCDATA) >
    <!ELEMENT edition (#PCDATA) >
    <!ELEMENT price (#PCDATA) >
]>
<book>
    <bookinfo>
        <title>Computer Networks</title>
        <author> Tanenbaum</author>
        <ISBN>123</ISBN>
        <publisher>Pearson</publisher>
        <edition>5th</edition>
        <price>₹880</price>
    </bookinfo>
    <bookinfo>
        <title>Web Technologies</title>
        <author> Sebesta</author>
        <ISBN>456</ISBN>
        <publisher>Pearson</publisher>
        <edition>3rd</edition>
        <price>₹6680</price>
    </bookinfo>
    <bookinfo>
        <title>UNIX Network Programming</title>
        <author> Bill Fenner </author>
        <ISBN>789</ISBN>
        <publisher>Addison-Wesley</publisher>
        <edition>2nd</edition>
        <price>₹450</price>
    </bookinfo>
    <bookinfo>
        <title>Programming Perl</title>
        <author>Randal L. Schwartz</author>
        <ISBN>167</ISBN>
        <publisher>O'Reilly Media, Inc.</publisher>
        <edition>1st</edition>
        <price>₹500</price>
    </bookinfo>
</bookinfo>
```

```

        <title>File Structures</title>
        <author> Bill Zoellick</author>
        <ISBN>129</ISBN>
        <publisher>Pearson</publisher>
        <edition>5th</edition>
        <price>₹980</price>
    </bookinfo>
</book>

```

OUTPUT :

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

```

▼ <book>
  ▼ <bookinfo>
    <title>Computer Networks</title>
    <author> Tanenbaum</author>
    <ISBN>123</ISBN>
    <publisher>Pearson</publisher>
    <edition>5th</edition>
    <price>₹880</price>
  </bookinfo>
  ▼ <bookinfo>
    <title>Web Technologies</title>
    <author> Sebesta</author>
    <ISBN>456</ISBN>
    <publisher>Pearson</publisher>
    <edition>3rd</edition>
    <price>₹6680</price>
  </bookinfo>
  ▼ <bookinfo>
    <title>UNIX Network Programming</title>
    <author> Bill Fenner </author>
    <ISBN>789</ISBN>
    <publisher>Addison-Wesley</publisher>
    <edition>2nd</edition>
    <price>₹450</price>
  </bookinfo>
  ▼ <bookinfo>
    <title>Programming Perl</title>
    <author>Randal L. Schwartz</author>
    <ISBN>167</ISBN>
    <publisher>O'Reilly Media, Inc.</publisher>
    <edition>1st</edition>
    <price>₹500</price>
  </bookinfo>
</book>

```

Mycode.xsl

```

<?xml version="1.0"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <html>
      <body>
        <table border="1">
          <tr>
            <th>Book Name</th>
            <th>Author</th>
          </tr>
          <xsl:for-each select="library/book">
            <tr>
              <td><xsl:value-of select="name"/></td>
              <td><xsl:value-of select="author"/></td>
            </tr>
          </xsl:for-each>

```

```

        </table>
    </body>
</html>
</xsl:template>
</xsl:stylesheet>

```

Book.xml

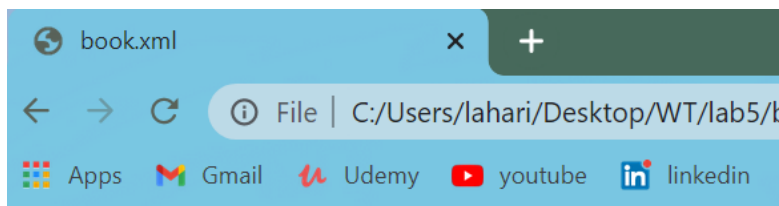
```

<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="mycode.xsl"?>
<library>
    <book>
        <name>Computer Networks</name>
        <author>Tanenbaum</author>
    </book>
    <book>
        <name>Web Technologies</name>
        <author>Sebesta</author>
    </book>
    <book>
        <name>UNIX</name>
        <author>Bill Fenner</author>
    </book>
    <book>
        <name>Programming Perl</name>
        <author>Randal L.Schwartz</author>
    </book>
</library>

```

Output:

```
C:\Program Files\Google\Chrome\Application>chrome.exe --allow-file-access-from-files
```



Book Name	Author
Computer Networks	Tanenbaum
Web Technologies	Sebesta
UNIX	Bill Fenner
Programming Perl	Randal L.Schwartz

LAB-5(RUBY)

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

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

Output:

```
C:\Users\lahari\Desktop\WT\lab6>ruby factorial.rb
Enter number
6
Factorial of 6 is 720
```

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

```
puts "Enter a string"
str=gets.chomp
count=0
str.split("").each do |i|
    count+=1
end
puts count
```

Output:

```
C:\Users\lahari\Desktop\WT\lab6>ruby strlen.rb
Enter a string
lahari
6
```

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

```
puts "Sides of triangle :"
```

```

a = gets.chomp.to_i
b = gets.chomp.to_i
c = gets.chomp.to_i
s = (a+b+c)/2;
puts "Value of s is #{s}"
area=Math.sqrt(s * (s-a) * (s-b) * (s-c))
puts "Area of triangle is #{area}"

```

Output:

```

C:\Users\lahari\Desktop\WT\lab6>ruby areaoftriangle.rb
Sides of triangle :
3
4
5
Value of s is 6
Area of triangle is 6.0

```

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

File1.txt

```

WT
OR
DBMS
FS
CD
DWBI
SRP
C++
JAVA
DS

```

```

filename = "file1.txt"
count = IO.readlines(filename).size
puts "There are #{count} lines in #{filename}";

```

Output:

```

C:\Users\lahari\Desktop\WT\lab6>ruby linecount.rb
There are 10 lines in file1.txt

```

Write simple Ruby programs that uses arrays in Ruby.

```

puts "Bubble Sort"
print "Enter the size of the array:"
n=gets.to_i
a=Array.new(n)

```

```

puts "Enter the elements :"
for i in 0..n-1
  a[i]=gets.to_i
end
t=0
for i in 0..n-1
  for j in i..n-1
    if (a[i] > a[j])
      t=a[j]
      a[j]=a[i]
      a[i]=t
    end
  end
end
puts "After Sorting :"
for i in 0..n-1
  print "#{a[i]} "
end

```

Output:

```

C:\Users\lahari\Desktop\WT\lab6>ruby array.rb
Bubble Sort
Enter the size of the array:5
Enter the elements :
10
54
90
32
06
After Sorting :
6 10 32 54 90
C:\Users\lahari\Desktop\WT\lab6>_

```

Write programs which uses associative arrays concept of Ruby.

```

shortcut = Hash.new;
shortcut = {"WT"=>"Web Technology","CN"=>"Computer Networks","OS"=>"Operating Systems"};
size = shortcut.length;
puts "Size of hash is: #{size}";
shortcut.each do |key,val|
puts "#{key} full form is #{val}"
end

```

Output:

```

C:\Users\lahari\Desktop\WT\lab6>ruby asscarr.rb
Size of hash is: 3
WT full form is Web Technology
CN full form is Computer Networks
OS full form is Operating Systems

C:\Users\lahari\Desktop\WT\lab6>

```

Write Ruby program which uses tk module to display a window

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

```
class Cmplx
  attr_accessor :real, :imag
  def read
    @real=gets.to_i
    @imag=gets.to_i
  end
  def add(other)
    ob = Cmplx.new
    ob.real = @real+other.real;
    ob.imag = @imag+other.imag;
    return ob
  end
  def subtract(other)
    ob = Cmplx.new;
    ob.real = @real-other.real;
    ob.imag = @imag-other.imag;
    return ob;
  end
  def multiply(other)
    ob = Cmplx.new
    ob.real = (@real * other.real)-(imag*other.imag);
    ob.imag = (@real * other.imag)+(imag*other.real);
    return ob;
  end
  def divide(other)
    t = Cmplx.new;
    ob = Cmplx.new;
    t.imag = -other.imag;
    r =(other.real).abs;
    i =(other.imag).abs;
    d =(r*r)+(i*i);
    ob.real = ((@real * other.real)-(imag*t.imag))/d;
    ob.imag = ((@real * t.imag)+(imag*other.real))/d;
    return ob;
  end
  def disp
    if @imag<0
      puts "#{@real}#{@imag}i"
    else
      puts "#{@real}+#{@imag}i"
    end
  end
end
t1 = Cmplx.new
t2 = Cmplx.new
```

```

t3 = Cmplx.new
t4 = Cmplx.new
t5 = Cmplx.new
t6 = Cmplx.new
puts "Enter first number"
t1.read
puts "Enter Second number"
t2.read
print "FIRST NUMBER:"
t1.disp
print "SECOND NUMBER:"
t2.disp
print "ADDITION:"
t3 = t1.add(t2)
t3.disp
print "SUBTRACTION:"
t4 = t1.subtract(t2)
t4.disp
print "PRODUCT:"
t5 = t1.multiply(t2)
t5.disp
print "DIVSION:"
t6 = t1.divide(t2)
t6.disp

```

Output:

```

C:\Users\lahari\Desktop\WT\lab6>ruby cmplx.rb
Enter first number
10
2
Enter Second number
5
1
FIRST NUMBER:10+2i
SECOND NUMBER:5+1i
ADDITION:15+3i
SUBTRACTION:5+1i
PRODUCT:48+20i
DIVSION:2+0i

C:\Users\lahari\Desktop\WT\lab6>

```

LAB-6(PHP)

Form.html

```

<html>
  <body>
    <form action=submit.php method="post">
      <pre>18B91A12D6</pre>
      Enter FirstName:<input type="text" name="a"/><br><br>
      Enter LastName:<input type="text" name="b"/><br><br>
    </form>
  </body>
</html>

```

```
        <input type="submit" name="sub" value="click"/>
    </form>
</body>
</html>
```

Output:

18B91A12D6

Enter FirstName:

Enter LastName:

Submit.php

```
<?php
$a=$_POST["a"];
$b=$_POST["b"];
echo "Hello ".$a." ".$b;
?>
```

Output:

Hello Lahari Sanku

Self.php

```
<html>
  <body>
    <pre>18B91A12D6</pre>
    <?php if ($_SERVER['REQUEST_METHOD'] === 'GET'){?>
      <form action="<?php $_SERVER['PHP_SELF'] ?>" method="post">
        Enter FirstName:<input type="text" name="a"/><br><br>
        Enter LastName:<input type="text" name="b"/><br><br>
        <input type="submit" name="sub" value="click"/>
      </form>
      <?php }else{
        $a=$_POST["a"];
        $b=$_POST["b"];
        echo "Welcome ".$a." ".$b;
      }
    ?>
  </body>
</html>
```

Output 1:

18B91A12D6

Enter FirstName:

Enter LastName:

OUTPUT 2:

18B91A12D6

Welcome Lahari Sanku

Ajax.html

```
<html>
  <head>
    <script type='text/javascript' src='ajax.js'></script>
    <title>PHP AJAX Example</title>
  </head>
  <body>
    <input type='button' onclick='MakeRequest();' value='Use AJAX!!!!' />
    <div id='ResponseDiv'>
      This is a RAGHU to hold the response.
    </div>
  </body>
</html>
```

Ajax.js

```
function MakeRequest()
{
  var xmlHttp;
  try
  {
    xmlHttp = new XMLHttpRequest();
  }
  catch(e)
```

```

{
alert("Your browser does not support AJAX!")
}
xmlHttp.onreadystatechange = function()
{
if(xmlHttp.readyState == 4)
{
HandleResponse(xmlHttp.responseText);
}
}
xmlHttp.open("GET", "server.php", true);
xmlHttp.send(null);
}
function HandleResponse(response)
{
document.getElementById('ResponseDiv').innerHTML = response;
}

```

Ajax.php

```

<?php
header('Access-Control-Allow-Origin: *');
echo "This is a php response to your request!!!!!!";
?>

```

Insert.php

```

<?php
$server="localhost";
$user="root";
$pass="";
$dbname="raghu";
$con =mysqli_connect($server,$user,$pass,$dbname);
if(!$con)
{
die("Error : : ".mysqli_connect_error());
}
$sql = "INSERT INTO student VALUES
('".$_POST['id']."' , '".$_POST['name']."' , '".$_POST['marks']."' )";
$res = mysqli_query($con,$sql);
if($res)
{
$sql2="select * from student";
$sres=mysqli_query($con,$sql2);

```



```

        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);

```

?>

Insertform.html

```

<html>
    <body>
        <form action="insert.php" method="post">
            ID <input type="text" name="id"/><br>
            Name <input type="text" name="name"/><br>
            Marks <input type="text" name="marks"/><br>
            <input type="submit" value="insert"/><br>
        </form>
    </body>
</html>

```

Perl and ruby

15

```

%myassarr=("wt"=>"web tech",
          "cn" => "comp netw" );

if(exists $myassarr{sb})
{

```

```

    print "element found\n";
}
else
{
    print "element not found\n";
}

$myassarr{"c"}="c program";
if(exists $myassarr{c})
{
    print "element found\n";
}
else
{
    print "element not found\n";
}

delete($myassarr{"c"});

if(exists $myassarr{c})
{
    print "element found\n";
}
else
{
    print "element not found";
}

op:
C:\Users\srrkr\Desktop\perl>perl first.pl
element not found
element found
element not found

```

2. 16

```

$n1=@ARGV[0];
$op=@ARGV[1];
$n2=@ARGV[2];

$ans=0;

if($op eq '+')
{
    $ans=$n1+$n2;
    print "addition : $ans";
}
elseif($op eq '-')

```

```

{
    $ans=$n1-$n2;
    print "subtraction : $ans";
}
elsif($op eq '*')
{
    $ans=$n1*$n2;
    print "multiplication : $ans";
}
else
{
    print "invalid operator!!!";
    exit;
}
op:
C:\Users\srrkr\Desktop\perl>perl second.pl 5 - 3
subtraction : 2
3,14 complex class
class Myclass
    @@clsvar=0;
    def initialize(name,id)
        @std_name=name
        @std_id=id
    end
    def total
        @@clsvar+=1
        print "#{@@clsvar}\n"
    end
end

obj=Myclass.new("vnk","1")
obj1=Myclass.new("vnk1","11")
obj.total
obj1.total
op:
C:\Users\srrkr\Desktop\perl>ruby complex.rb
1
2

```



ReplyReply to allForward