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Subject : Web Programming (USCS307)

Class : SY BSC COMPUTER SCIENCE

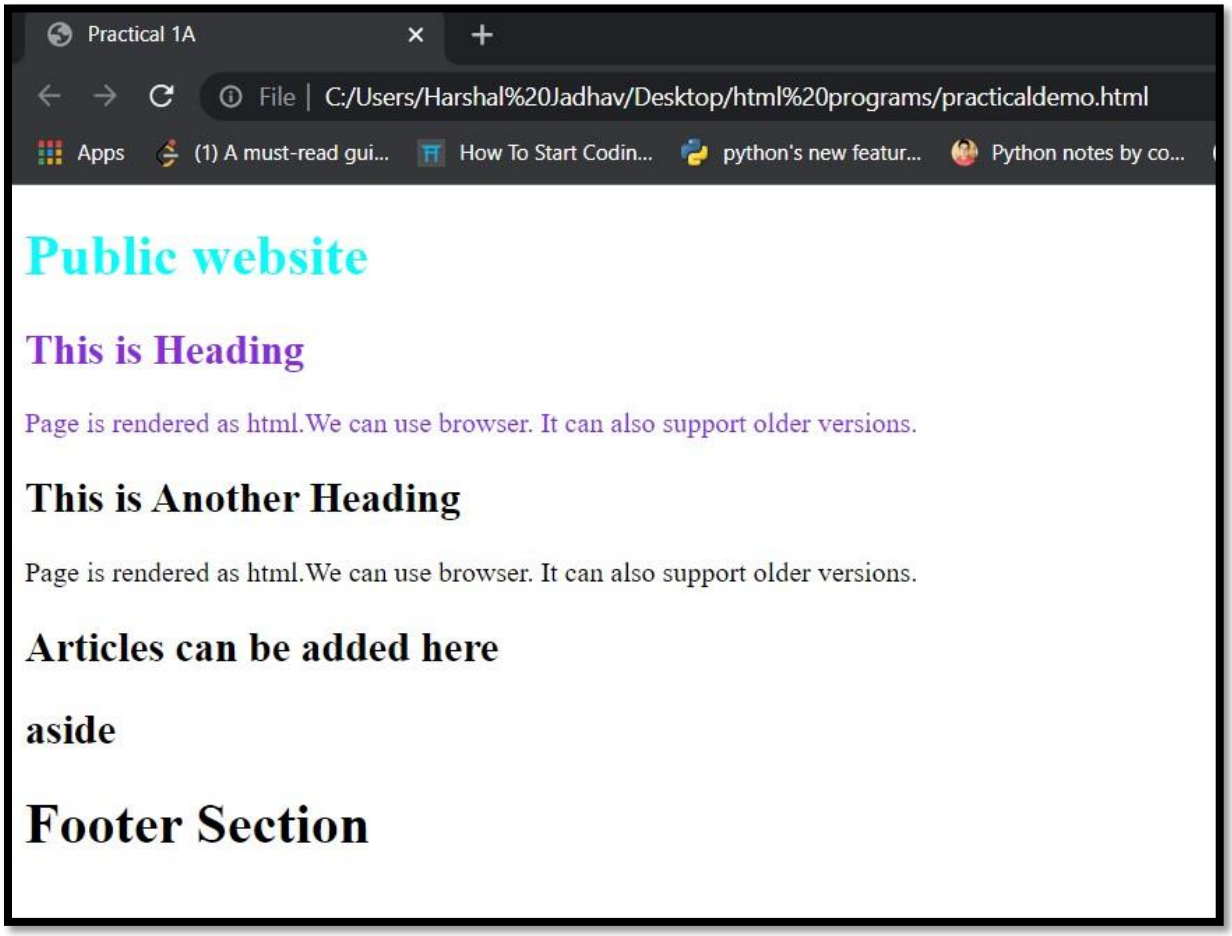
Practical No. : 1

Aim : Design a webpage that makes use of a.) Document Structure Tags b.) Various Text Formatting Tags c.) List Tags d.) Image and Image Maps **Program : practical1a.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Practical 1A</title>
</head>
<body>
   <header style="color: aqua;">
      <h1>Public website</h1>
   </header>
```

```
   <section style="color:blueviolet;">
      <h1>This is Heading</h1>
      <p>Page is rendered as html.We can use browser. It can also support older versions.</p>
</section>

   <section>
      <h1>This is Another Heading</h1>
      <p>Page is rendered as html.We can use browser. It can also support older versions.</p>
</section>

   <article>
      <h1>Articles can be added here</h1>
   </article>
   <aside>
      <h2>aside</h2>
   </aside>
<footer>
      <h1>Footer Section</h1>
   </footer>
</body>
</html>
```

Output:

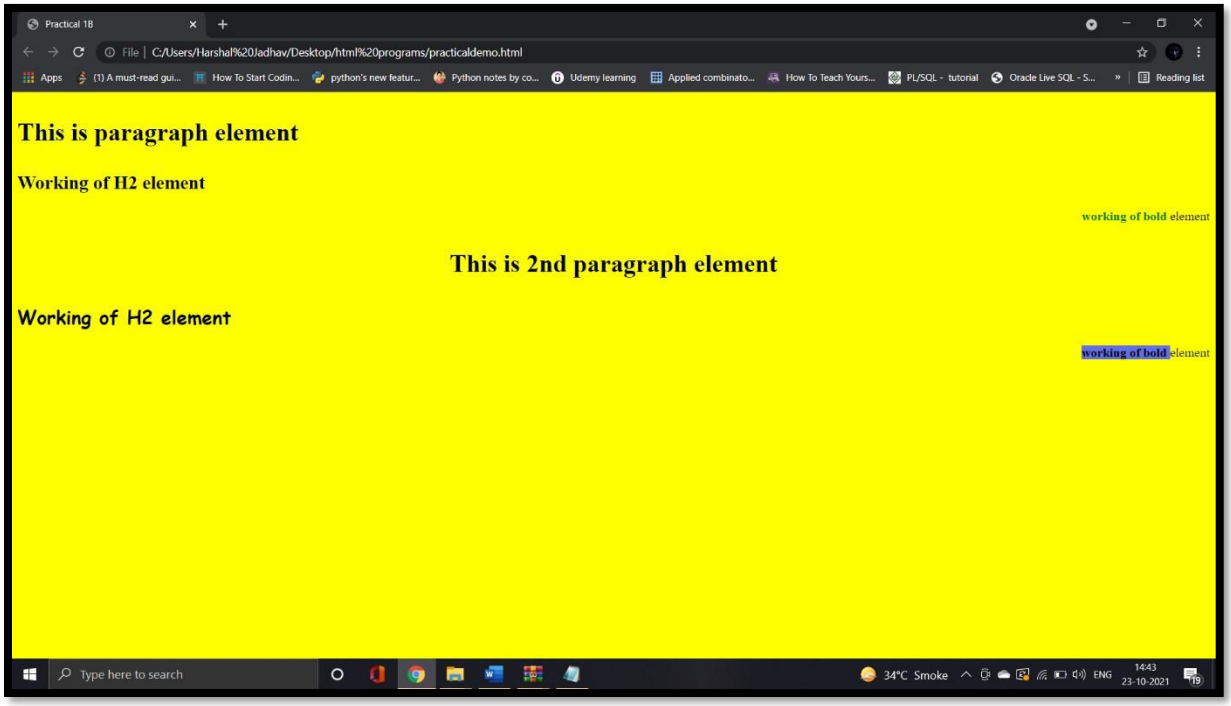


practical1b.html

```
<!DOCTYPE html>

<html lang="en">

<head>


  <title>Practical 1B</title>

</head>


<body style="background:yellow border-box;">

   <h1>
```

```
    <p>This is paragraph element</p>
  </h1>
  <h2 style="font-family:cursive font;">Working of H2 element</h2>
  <p style="text-align:right;"><b style="color: green;">working of bold </b>element</p>

  <h1>
    <p style="text-align: center;">This is 2nd paragraph element</p>
  </h1>
  <h2 style="font-family:cursive;">Working of H2 element</h2>
  <p style="text-align:right;"><b style="background: rgb(100, 110, 230);">working of bold
</b>element</p>
</body>
</html>
```

Output :

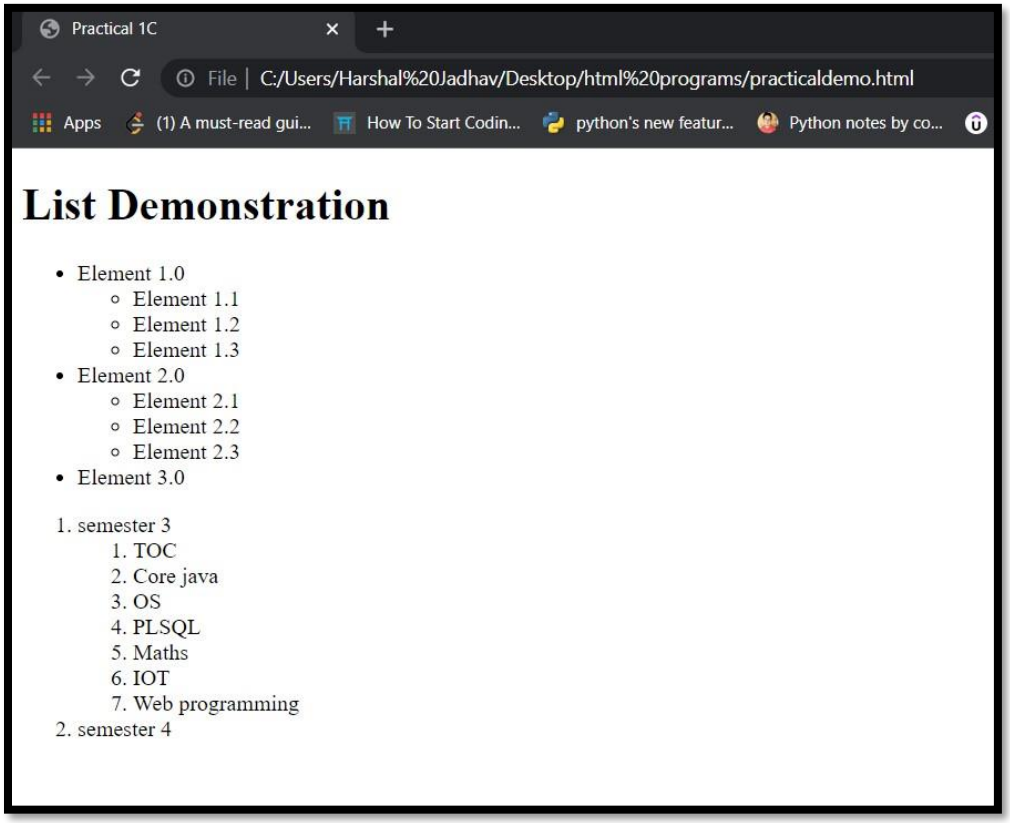


Practical1c.html

```
<!DOCTYPE html> <html
lang="en">
<head>

  <title>Practical 1C</title>
</head>
<body>
  <h1>List Demonstration</h1>
  <ul>
    <li>Element 1.0</li>
    <ul>
      <li>Element 1.1</li>
      <li>Element 1.2</li>
      <li>Element 1.3</li>
    </ul>
    <li>Element 2.0</li>
    <ul>
      <li>Element 2.1</li>
      <li>Element 2.2</li>
      <li>Element 2.3</li>
    </ul>
    <li>Element 3.0</li>
  </ul>

  <ol style="text-align: justify;">
    <li>semester 3</li>
    <ol>
      <li>TOC</li>
      <li>Core java</li>
      <li>OS</li>
```

```
        <li>PLSQL</li>
        <li>Maths</li>
        <li>IOT</li>
        <li>Web programming</li>
    </ol>
    <li>semester 4</li>
    <ol>

    </ol>
  </ol>
</body>
</html>
```

Output:



Practical1d.html

```
<!DOCTYPE html>
```

```
<html lang="en">

<head>
   <title>Practical 1D</title>
</head>

<body>
<h2 style="text-align:center;">Demonstration of Image and Imagemap</h2>
<img src="shapes.jpg" usemap="#imagemap"/>
<map name="imagemap">
<area shape="rect" coords="260,15,450,188" href="square.html"/><!--coords="x,y,width,height"-->
<area shape="circle" coords="372,310,94" href="circle.html"/><!--coords="centerx,centery,radius"->
<area shape="poly" coords="633,53,570,200,697,198" href="triangle.html"/>
</map>
</body>

</html>
```

Circle.html

```
<html>
<body>
<h1> you clicked Circle</h1>
</body>
</html>
```

Square.html

```
<html>
<body>
<h1> you clicked square</h1>
</body>
</html>
```

Triangle.html

```
<html>
```

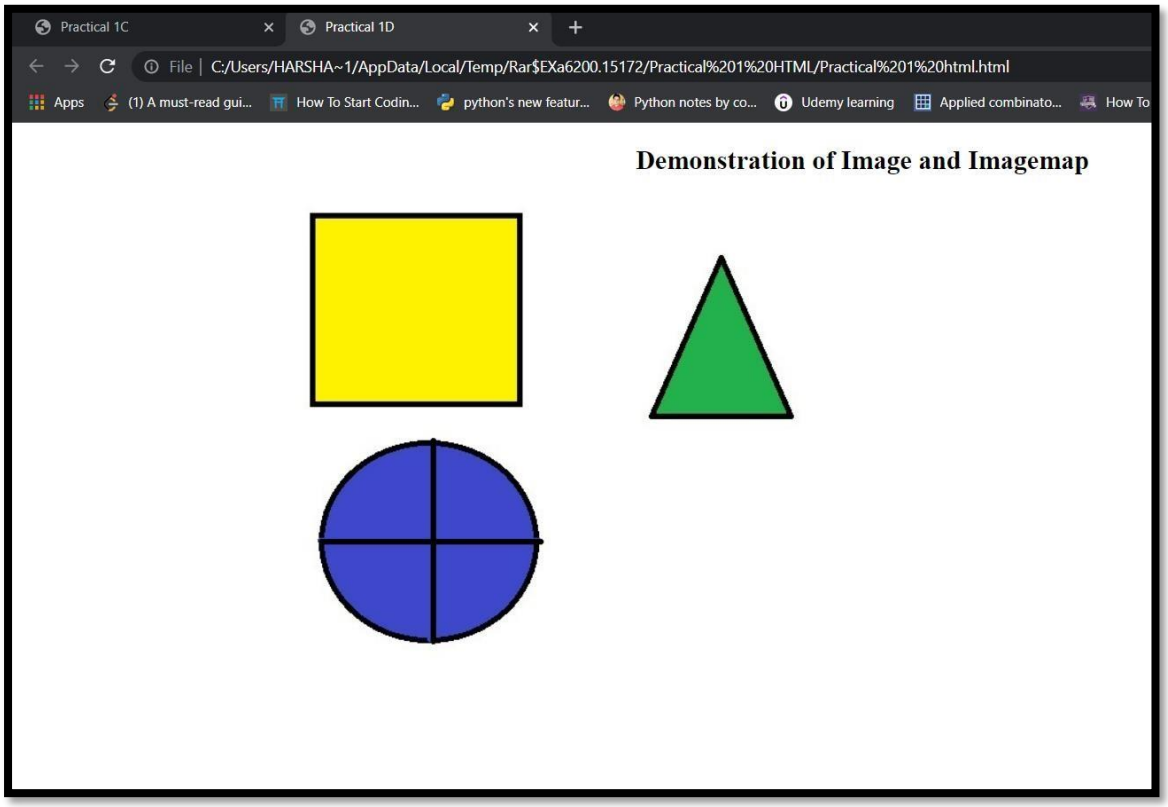
<body>

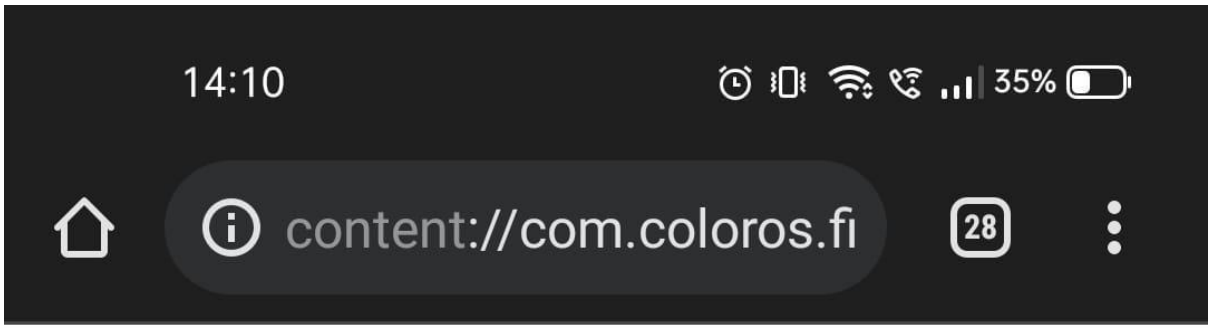
<h1> you clicked Triangle</h1>

</body>

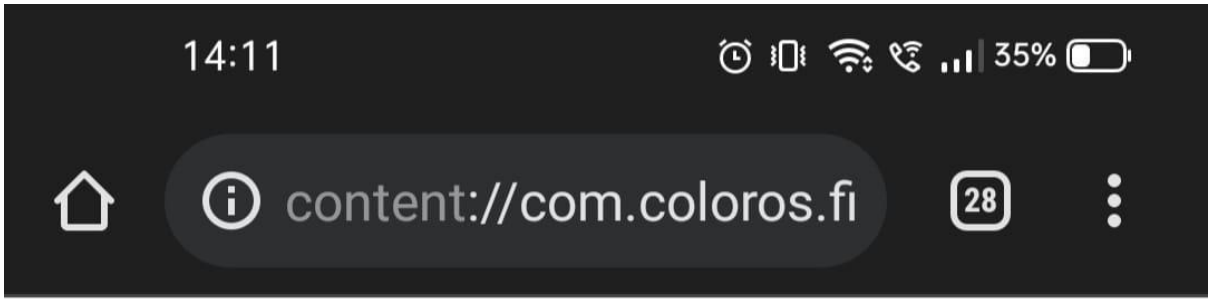
</html>

Output :

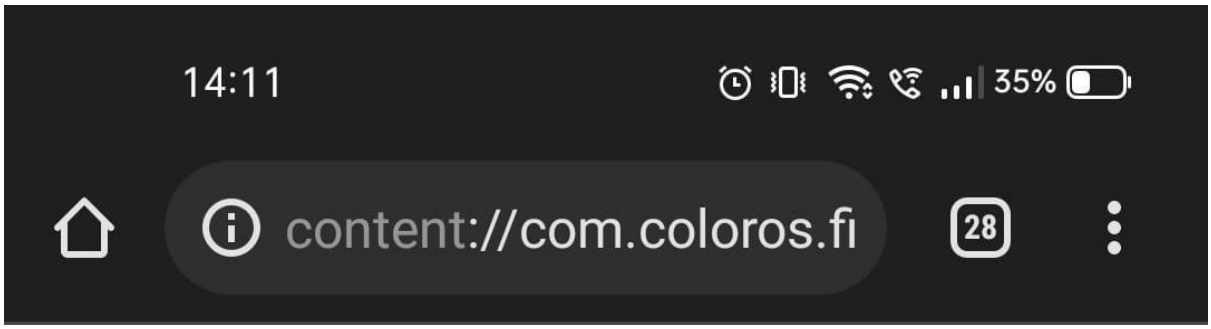




you clicked Circle



you clicked square



you clicked Triangle

Practical No.2

Aim : Design a webpage that makes use of a.) Table tags b.) Form Tags (forms with various form elements) c.) Navigation across multiple pages d.) Embedded Multimedia elements

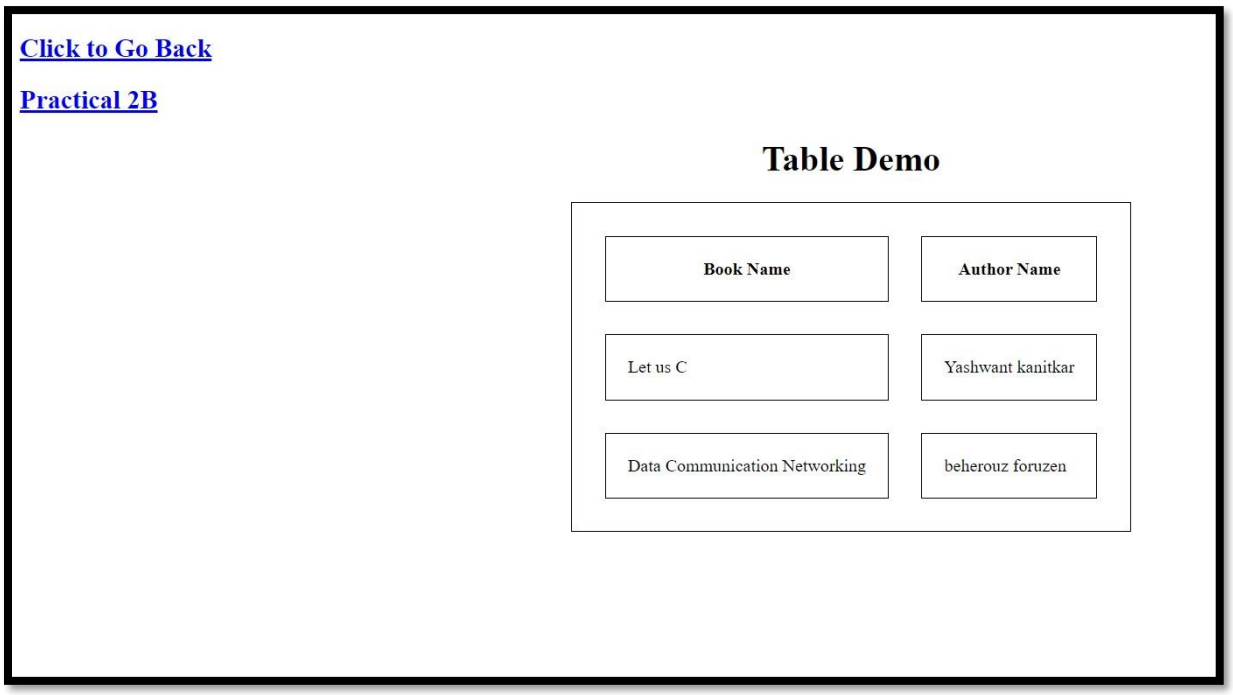
Program : Practical2a.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Practical 2A</title>
   <style>
      table,
th,       td
{
         border: 1px solid black;
      }
                     table.center{                margin-
left:auto;                    margin-right:auto;
                              }
   </style>

</head>

<body>
<nav>
<a href="practical2c.html"><h1>Click to Go Back</h1></a>
<a href="practical2b.html"><h1>Practical 2B</h1></a>
</nav>
   <h1 style="text-align:center;">Table Demo</h1>

   <table class="center" cellpadding="20px" cellspacing="30px">
      <tr>
         <th>Book Name</th>
         <th>Author Name</th>
      </tr>

      <tr>
         <td>Let us C</td>
         <td>Yashwant kanitkar</td>
```

```
    </tr>

    <tr>
      <td>Data Communication Networking</td>
      <td>beherouz foruzen</td>
    </tr>
</table> </body>
</html>
```

Output :



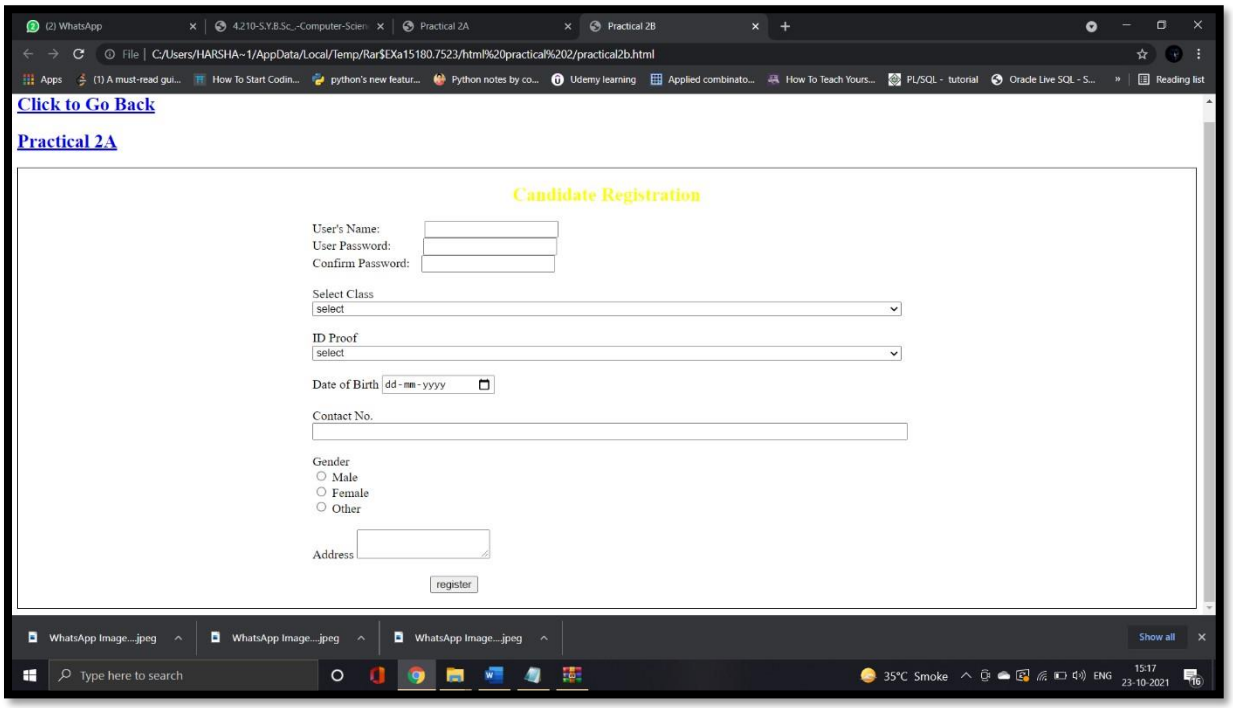
Practical2b.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=<device-width>, initial-scale=1.0">
  <title>Practical 2B</title>
```

```
</head>

<body>
<nav>
<a href="practical2c.html"><h1>Click to Go Back</h1></a>
<a href="practical2.html"><h1>Practical 2A</h1></a>
</nav>
<article style="border:1px solid black;">

   <h1 style="text-align: center; color: yellow;">Candidate Registration</h1>

   <form style="align-content: center; margin: auto; width:50%">
      <div style="text-align: left;">
         <label for="NAME">User's Name:</label>
         <input type="text" id="NAME" style="margin-left: 7%;"><br>
         <label for="pwd">User Password:</label>
         <input type="password" id="pwd" style="margin-left: 5%;"><br>
         <label for="confpwd">Confirm Password:</label>
         <input type="password" id="confpwd" style="margin-left: 1.4%;"><br><br>

         <label for="class">Select Class</label>
         <select id="class" style="width:100%">
   <option value="">select</option>
   <option value="FYBSc">FYBSc</option>
   <option value="SYBSc">SYBSc</option>
   <option value="TYBSc">TYBSc</option>
</select><br><br>

         <label for="proof">ID Proof</label>
         <select name="proof" id="proof" style="width:100%">
   <option value="">select</option>
```

```
   <option value="aadhar">Aadhar No.</option>
   <option value="voterid">Voter ID</option>
   <option value="Driving License">Driving License</option>
</select><br><br>

        <label for="doj">Date of Birth</label>
        <input type="date" id="doj" name="doj"><br><br>
        <label for="contact">Contact No.</label>
        <input type="number" id="contact1" min="6" max="10" style="width:100%;"><br><br>

        <label for="gender">Gender</label><br>

        <input type="radio" id="male" name="gender" value="male">
        <label for="Male">Male</label><br>

        <input type="radio" id="female" name="gender" value="female">
<label for="Female">Female</label><br>

        <input type="radio" id="Other" name="gender" value="Other">
        <label for="Other">Other</label><br><br>
                                    <label for="address">Address</label>
        <textarea name="address"></textarea><br><br>
        <input type="submit" value="register" style="margin-left: 20%;"><br><br>
      </div>
   </form>
</article>
</body>

</html>
```

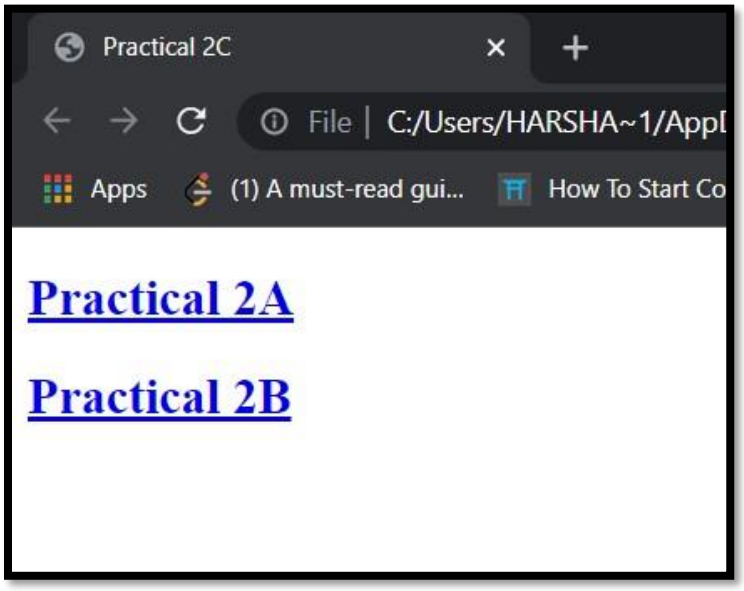
Output



Practical2c.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Practical 2C</title>
</head>
<body>
<nav>
<a href="practical2.html"><h1>Practical 2A</h1></a>
<a href="practical2b.html"><h1>Practical 2B</h1></a>
</nav>
</body>
</html>
```

Output :



Practical2d.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Practical 2D</title>
</head>

<body>

<!--
//Embedded Video file

<video width="320" height="240" controls>
<source src="" type="video/mp4"> </video> -->

<!--
```

//Embedded Audio file

<audio controls>

<source src="" type="audio/mp3">

</audio> -->

<iframe width="560" height="315" src="https://www.youtube.com/embed/zl203Xj26AI"

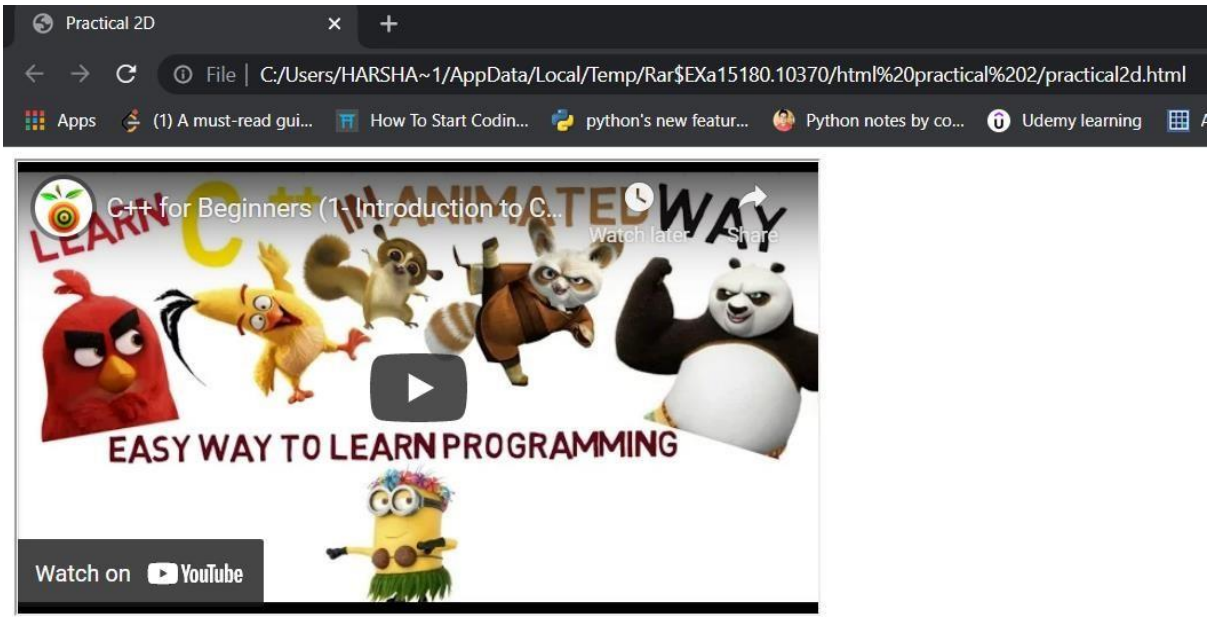
picture-in-picture" allowfullscreen>

</iframe>

</body>

</html>

Output :



Practical 3

Aim : Design a webpage that make use of Cascading Style Sheets with a.) CSS properties to change the background of a Page b.) CSS properties to change Fonts and Text Styles c.)CSS properties for positioning an element Programs :

Practical3A.html

<html>

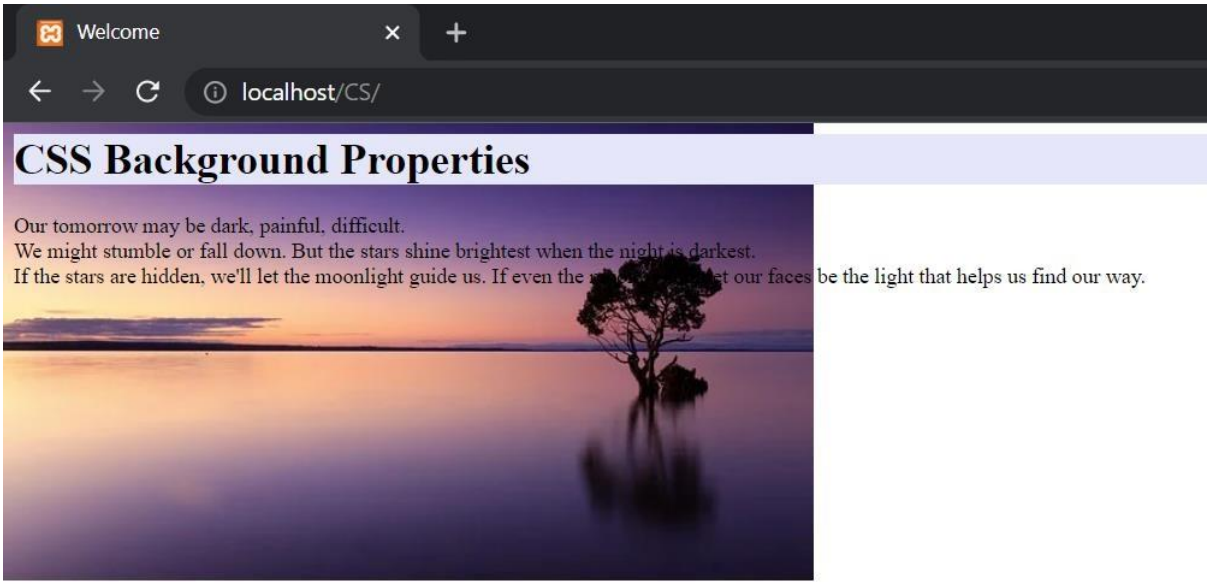
<head>

<title> Welcome </title>

```
</head>

<style> h1
{
background-color: lavender;
}
body
{
background-image:url("Pc.jpg"); background-repeat:
no-repeat; background-position: center;
background-attachment: fixed;
}
</style>

<body>
<h1> CSS Background Properties </h1>

<p> Our tomorrow may be dark, painful, difficult.<br>
We might stumble or fall down. But the stars shine brightest when the night is darkest.<br> If
the stars are hidden, we'll let the moonlight guide us.
If even the moon is dark let our faces be the light that helps us find our way.<br></body>
```

<html>

Output :



Practical3b.html

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

<style> div.a{ font-family: "Times New
Roman", Times, serif;
font-style: italic; color:
purple; text-transform:
capitalize; text-align:
center; text-indent: 6px;
letter-spacing: 2px; word-
spacing: 8px;
}

div.b{
```

```
font-family: "Courier New", Courier, monospace;
font-variant: small-caps; font-weight: 900; text-
align: center; text-decoration: overline;
}
</style>
<body>
<h1> CSS Font & Text <h1>

<div class = "a"> You are the whole sky when everything is just the weather. </div><br>
<div class = "b"> Do it with passion or not at all. </div>
</body>
</html>
```

Output

Practica3c.html

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

<style> div.static
{
position: static;
width: 550px; border:
3px solid green;
}
```

```
div.relative
{
position: relative; left:
50px;
width: 550px; border:
3px solid yellow;
}

div.absolute
{
position: absolute; top:
250px; right: 50px;
width: 550px; height:
50px; border: 3px solid
purple;
}

div.fixed
{
position: fixed; bottom:
200px;
right: 50px; border:
3px solid red;
}
</style>
<body>
<h1> Positing Elements <h1>
<div class="static"> Create yout own sunshine. </div><br>

<div class="relative"> It all works out. Trust yourself. </div>
```

 Small steps is still progress.

 Believe in what you pray for.

</body>

</html>

Output :

Practical 4

Aim : Write JavaScript code for a.) Performing various mathematical operations such as calculating factorial / finding Fibonacci Series / Displaying Prime Numbers in a given range / Evaluating Expressions / Calculating reverse of a number b.)Validating the various Form Elements

Programs :

Practical4a1.html

<!DOCTYPE HTML>

<html>

<head>

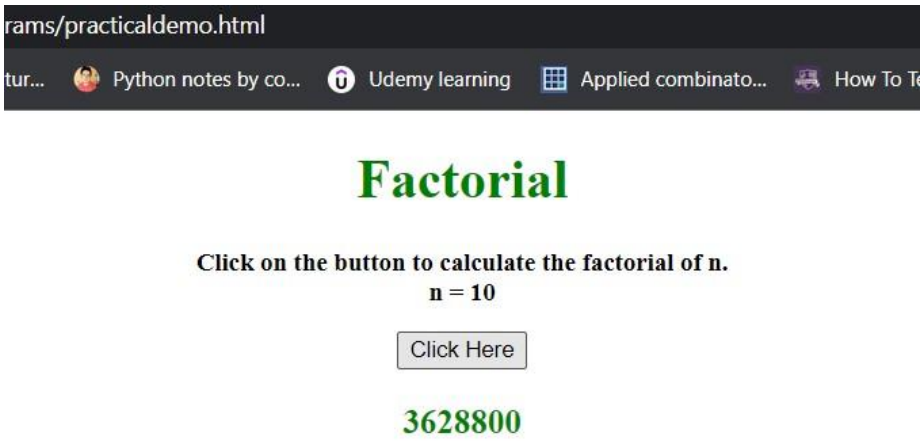
```
<title>
Factorial of a number using JavaScript
</title>
</head>
<body style="text-align:center;">
<h1 style="color:green;">
Factorial
</h1>
<p id="VALUE1" style="font-size: 15px; font-weight: bold;">
</p>
<button onclick="fact_op()"> Click Here </button>
<p id="op" style="color:green; font-size: 20px; font-weight: bold;"></p>
<script>
let up = document.getElementById('VALUE1');
let down = document.getElementById('op'); let
n = 10;
up.innerHTML = "Click on the button to calculate" +
" the factorial of n.<br>n = " + n;
function Factorial(n) { var ans =
1; for (var i = 2; i <= n; i++)

ans = ans * i; return
ans;
}
function fact_op() { down.innerHTML
= Factorial(n);
}
```

</script>

</body>

</html>

Output :



Practical4a2.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Javascript Fibonacci</title>

</head>

<body>

<h1>Javascript Fibonacci</h1>

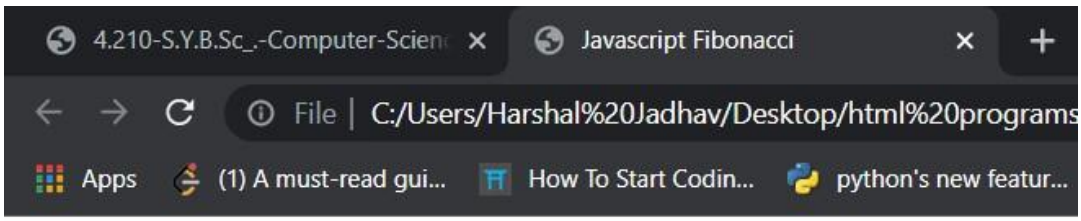
</body>

<script> var

num=9; var

```
num1 = 0; var
num2 = 1; var
sum=0;
var i = 0; for (i = 0; i <
num; i++) { sum =
num1 + num2; num1 =
num2; num2 = sum;
document.write("Fibonacci series: " + sum + "<br>");
}
</script>
</html>
```

Output :



Javascript Fibonacci

Fibonacci series: 1
Fibonacci series: 2
Fibonacci series: 3
Fibonacci series: 5
Fibonacci series: 8
Fibonacci series: 13
Fibonacci series: 21
Fibonacci series: 34
Fibonacci series: 55

Practical4a3.html

```
<!DOCTYPE html>
<html lang="en">
```

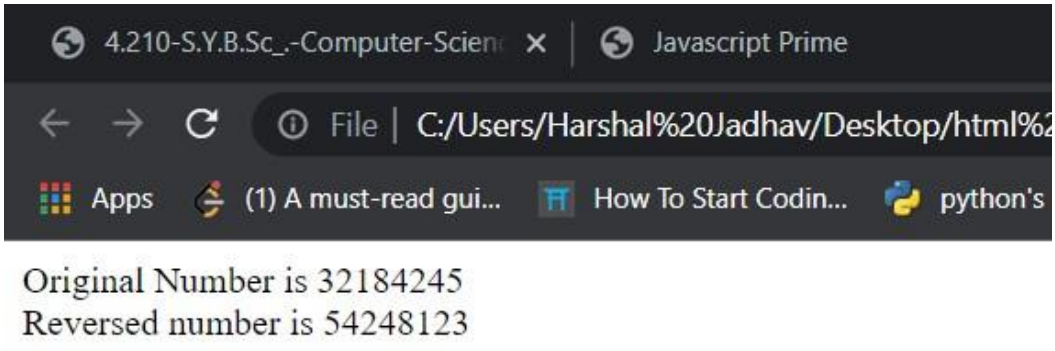
```
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Javascript Prime</title>
</head>
<body>
<h1>Javascript Prime</h1>
</body> <script> var lowerNumber = parseInt(prompt('Enter
lower number: ')); var higherNumber = parseInt(prompt('Enter
higher number: ')); for (let i = lowerNumber; i <=
higherNumber; i++) { let flag = 0; for (let j = 2; j < i; j++) {
if (i % j == 0) {
flag = 1; break;
}
}
if (i > 1 && flag == 0) { document.write("<br>"
+ i);
}
}
</script>
</html>
```

Output :

Practical4c4.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Reverse number</title>
</head>
<body>
</body> <script> function
reverse_a_number(n) {
document.write("Original Number is " + n)
document.write("<br>")
n = n + ""; return
n.split("").reverse().join("");
}
document.write("Reversed number is " + reverse_a_number(32184245))
</script>
</html>
```

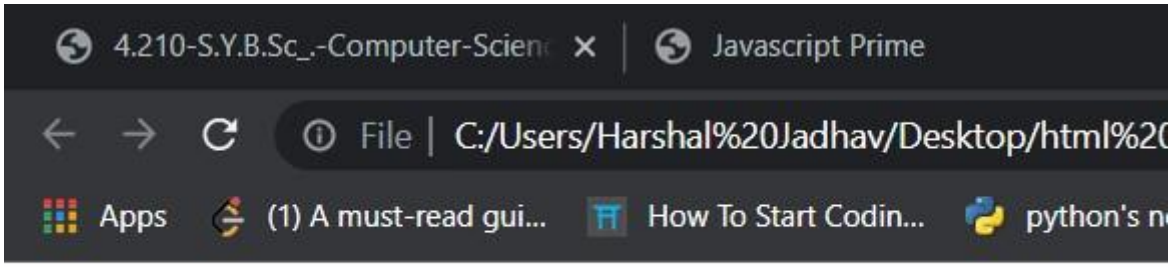
Output :



Practical4a5.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>RegExp</title>
</head>
<body>
<button onclick="mf()" > Search</button>
<p id="s1"></p>
</body> <script>
function mf()
{
let str = " the File is kept over the table file"
let pat= /file/ig; let op = str.match(pat);
document.write(op);
}
</script>
</html>
```

Output :



File,file

Practical4B.html

```
<!DOCTYPE html>
<html lang="en">

<head>
   <meta charset="UTF-8">
   <title>JavaScript Form validation</title>
   <!--<link rel="stylesheet" href="form-style.css">-->

<style>

body {    font-size: 16px;    background: #f9f9f9;    font-
family: "Segoe UI", "Helvetica Neue", Arial, sans-serif;
}
h2 {    text-align: center;
text-decoration: underline;
}
form {    width: 300px;
background: #fff;
padding: 15px 40px 40px;
border: 1px solid #ccc;
margin: 50px auto 0;
border-radius: 5px;
```

```
} label {
display: block;
   margin-bottom: 5px
}
label i {    color:
#999;    font-
size: 80%;
}
input, select {    border:
1px solid #ccc;
padding: 10px;
display: block;    width:
100%;    box-sizing:
border-box;    border-
radius: 2px;
}
.row {    padding-
bottom: 10px;
}
.form-inline {    border:
1px solid #ccc;
padding: 8px 10px 4px;
border-radius: 2px;
}
.form-inline label, .form-inline input {
display: inline-block;    width: auto;
padding-right: 15px;
}
.error {    color:
red;    font-size:
90%;
```

```
}
input[type="submit"] {    font-
size: 110%;    font-weight: 100;
background: #006dcc;    border-
color: #016BC1;    box-shadow:
0 3px 0 #0165b6;
   color: #fff;
   margin-top: 10px;
cursor: pointer;
}
input[type="submit"]:hover {    background: #0165b6;
}
</style>
   <script>
      // Defining a function to display error message        function
printError(elemId, hintMsg) {
document.getElementById(elemId).innerHTML = hintMsg;
      }

      // Defining a function to validate form
function validateForm() {
         // Retrieving the values of form elements            var
name = document.contactForm.name.value;           var
email = document.contactForm.email.value;          var
mobile = document.contactForm.mobile.value;          var
country = document.contactForm.country.value;          var
gender = document.contactForm.gender.value;
         var hobbies = [];
         var checkboxes = document.getElementsByName("hobbies[]");
         for (var i = 0; i < checkboxes.length; i++) {
if (checkboxes[i].checked) {
```

```
            // Populate hobbies array with selected values
hobbies.push(checkboxes[i].value);
            }
        }

        // Defining error variables with a default value            var nameErr =
emailErr = mobileErr = countryErr = genderErr = true;

        //  Validate  name
if  (name  ==  "")  {
printError("nameErr",
"Please  enter  your
name");
        } else {              var regex = /^[a-zA-Z\s]+$/;              if
(regex.test(name) === false) {
printError("nameErr", "Please enter a valid name");
            }              else              {
printError("nameErr",                "");
nameErr = false;
            }
        }

        // Validate email address
        if (email == "") {
            printError("emailErr", "Please enter your email address");
        } else {
            // Regular expression for basic email validation              var
regex = /^\S+@\S+\.\S+$/;              if (regex.test(email) === false) {
printError("emailErr", "Please enter a valid email address");
            } else {
```

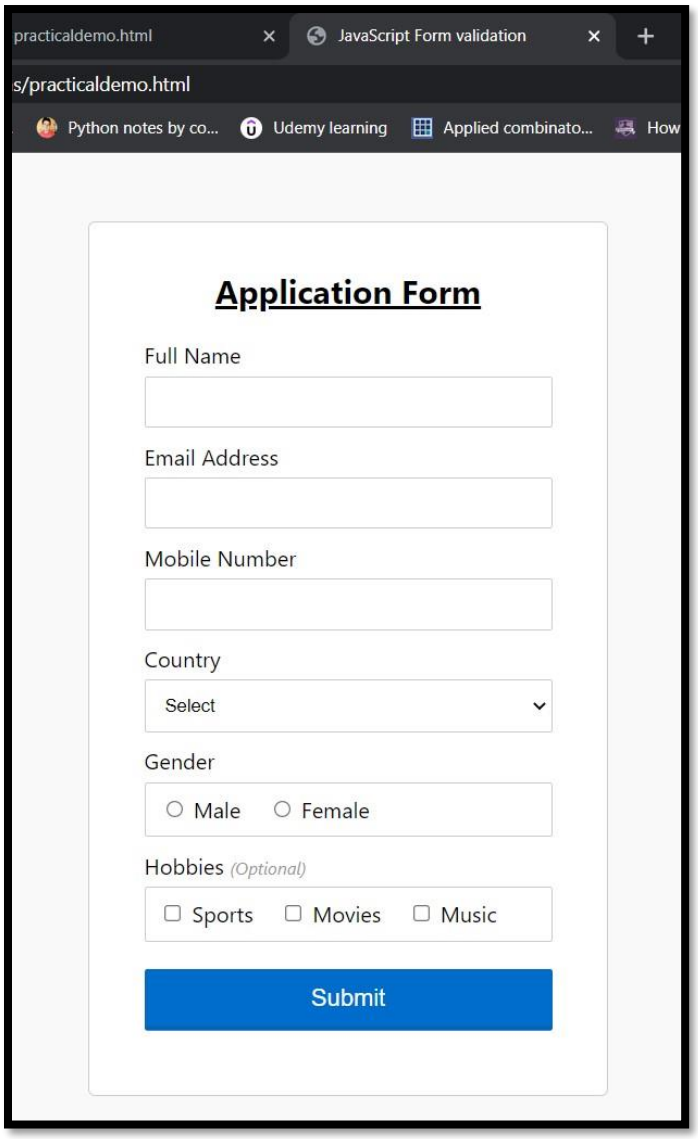
```
            printError("emailErr", "");
emailErr = false;
          }
        }

        // Validate mobile number
        if (mobile == "") {
          printError("mobileErr", "Please enter your mobile number");
        } else {
          var regex = /^[1-9]\d{9}$/;
if (regex.test(mobile) === false) {
printError("mobileErr", "Please enter a
valid 10 digit mobile number");
          } else {
printError("mobileErr", "");
mobileErr = false;
          }
        }

        // Validate country        if (country == "Select") {
printError("countryErr", "Please select your country");
        } else {
printError("countryErr", "");
countryErr = false;
        }

        // Validate gender
if (gender == "") {
          printError("genderErr", "Please select your gender");
        } else {
```

```
            printError("genderErr", "");
genderErr = false;
        }

        // Prevent the form from being submitted if there are any errors            if
((nameErr || emailErr || mobileErr || countryErr || genderErr) == true) {
            return false;
        } else {
            // Creating a string from input data for preview                var
dataPreview = "You've entered the following details: \n" +
                "Full Name: " + name + "\n" +
                "Email Address: " + email + "\n" +
                "Mobile Number: " + mobile + "\n" +
                "Country: " + country + "\n" +
"Gender: " + gender + "\n";                if (hobbies.length) {
dataPreview += "Hobbies: " + hobbies.join(", ");
            }
            // Display input data in a dialog box before submitting the form
            alert(dataPreview);
        }
    };
  </script>
</head>

<body>
  <form name="contactForm" onsubmit="return(validateForm())"
action="https://www.google.com">
    <h2>Application Form</h2>
    <div class="row">
      <label>Full Name</label>
      <input type="text" name="name">
```

```
    <div class="error" id="nameErr"></div>
</div>
<div class="row">
    <label>Email Address</label>
    <input type="text" name="email">
    <div class="error" id="emailErr"></div>
</div>
<div class="row">
    <label>Mobile Number</label>
    <input type="text" name="mobile" maxlength="10">
    <div class="error" id="mobileErr"></div>
</div>
<div class="row">
    <label>Country</label>
    <select name="country">
    <option>Select</option>
    <option>Australia</option>
    <option>India</option>
    <option>United States</option>
    <option>United Kingdom</option>
</select>
    <div class="error" id="countryErr"></div>
</div>
<div class="row">
    <label>Gender</label>
    <div class="form-inline">
        <label><input type="radio" name="gender" value="male"> Male</label>
        <label><input type="radio" name="gender" value="female"> Female</label>
    </div>
    <div class="error" id="genderErr"></div>
</div>
```

```
      <div class="row">
        <label>Hobbies <i>(Optional)</i></label>
        <div class="form-inline">
          <label><input type="checkbox" name="hobbies[]" value="sports"> Sports</label>
          <label><input type="checkbox" name="hobbies[]" value="movies"> Movies</label>
          <label><input type="checkbox" name="hobbies[]" value="music"> Music</label>
        </div>
      </div>
      <div class="row">
        <input type="submit" value="Submit">
      </div>
    </form>
</body>

</html>
```

Output :



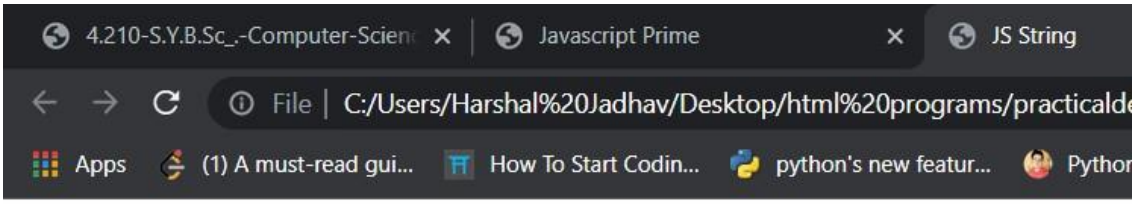
Practical 5

Aim : Write JavaScript code for a.) Demonstrating different JavaScript Objects such as String, RegExp, Math, Date b.)Demonstrating different JavaScript Objects such as Window, Navigator, History, Location, Document, c.) Storing and Retrieving Cookies **Programs : Practical5a1.html**

```
<!DOCTYPE html>

<html lang="en">

<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>JS
String</title>
</head>
<body>
<h1>JS string</h1>
</body> <script> let s1 = new String("This is Example")
document.write("String length " + s1.length)
document.write("<br>") document.write("Upper
conversion " + s1.toUpperCase())
let s2 = "Java" let
s3 = "Java"
document.write("<br>") document.write(s2
== s3)
</script>
</html>
```

Output :



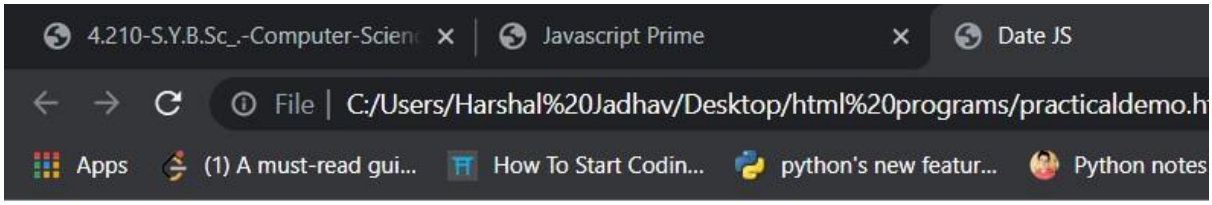
JS string

String length 15
Upper conversion THIS IS EXAMPLE
true

Practical5a2.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Date JS</title>
</head>
<body>
<h1>date js</h1>
</body> <script> let now = new
Date("2020-12-25");
document.write(now)
document.write("<br>")
document.write(now.getFullYear())
</script>
</html>
```

Output :



date js

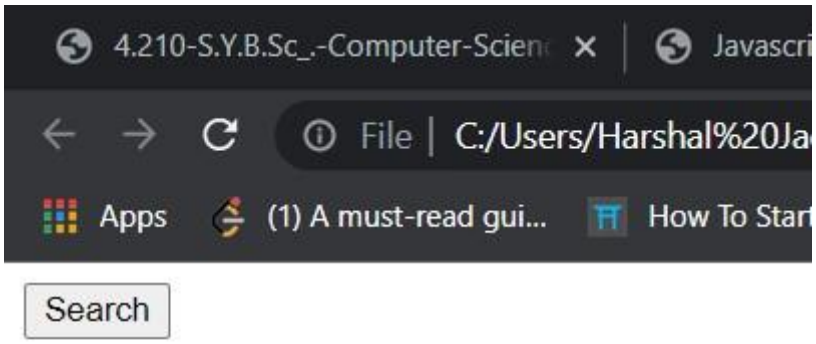
Fri Dec 25 2020 05:30:00 GMT+0530 (India Standard Time)
2020

Practical5a3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>RegExp</title>
</head>
<body>
<button onclick="mf()" > Search</button>
<p id="s1"></p>
</body> <script>
function mf()
{
let str = " the File is kept over the table file"
let pat= /file/ig; let op = str.match(pat);
document.write(op);
}
</script>
</html>
```

Output :

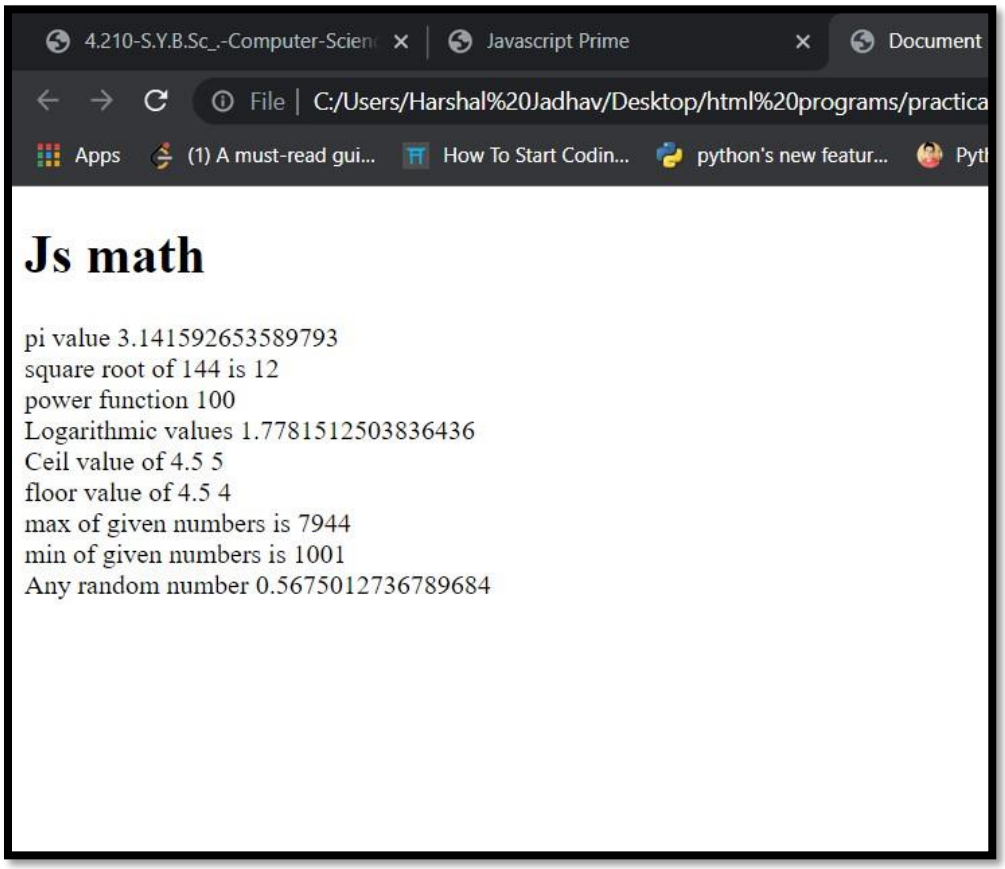


Practical5a4.html

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>
<body>
<h1> Js math</h1>
</body> <script> document.write("pi value "+Math.PI);
document.write("<br>"); document.write("square root of
144 is "+Math.sqrt(144)); document.write("<br>");
document.write("power function "+Math.pow(10,2));
document.write("<br>");

document.write("Logarithmic values "+Math.log10(60)); document.write("<br>");
document.write("Ceil value of 4.5 "+Math.ceil(4.5)); document.write("<br>");
document.write("floor value of 4.5 "+Math.floor(4.5)); document.write("<br>");
document.write("max of given numbers is "+Math.max(1001,2020,5165,7944,6546));
document.write("<br>"); document.write("min of given numbers is
"+Math.min(1001,2020,5165,7944,6546)); document.write("<br>");
document.write("Any random number "+Math.random(0,100));
</script>
</html>
```

Output :

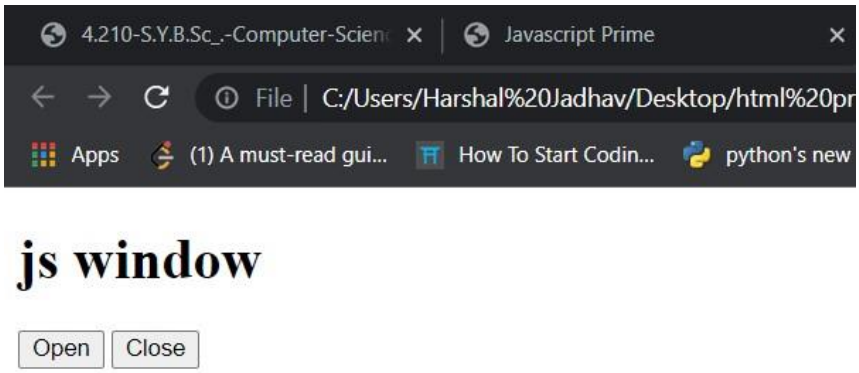


Practical5b1.html

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Js Window</title>

</head>

<body>

<h1>js window</h1>

<button onclick="wopen()">Open</button>

<button onclick="wclose()">Close</button>

</body> <script> function wopen(){

window.open("https://www.google.com", "_blank", "width=400,

height=300")
```

```
}
function wclose(){ window.close();
}
</script>
</html>
```

Output

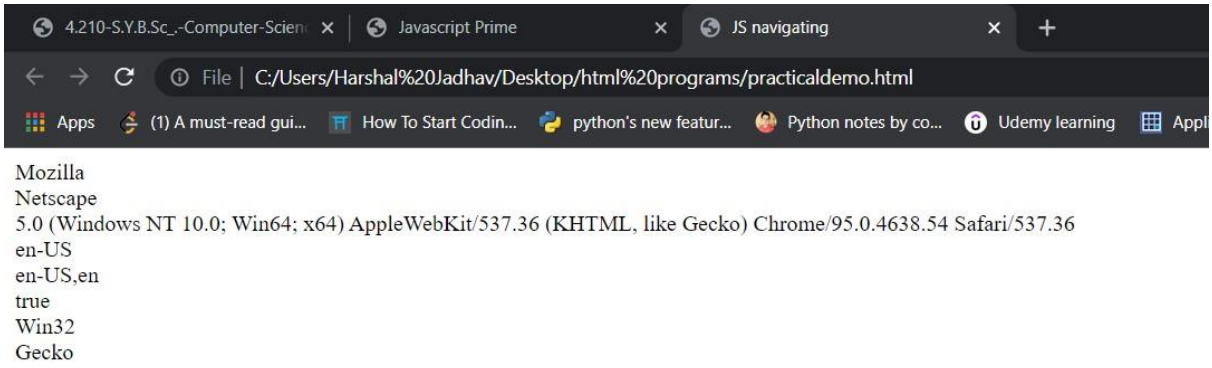


Practical5b2.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>JS navigating</title>
</head>
<body>
</body> <script>
document.write(navigator.appCodeName)
document.write("<br>")
document.write(navigator.appName)
```

```
document.write("<br>")
document.write(navigator.appVersion)
document.write("<br>") document.write(navigator.language)
document.write("<br>")
document.write(navigator.languages)
document.write("<br>") document.write(navigator.onLine)
document.write("<br>") document.write(navigator.platform)
document.write("<br>") document.write(navigator.product)
</script>
</html>
```

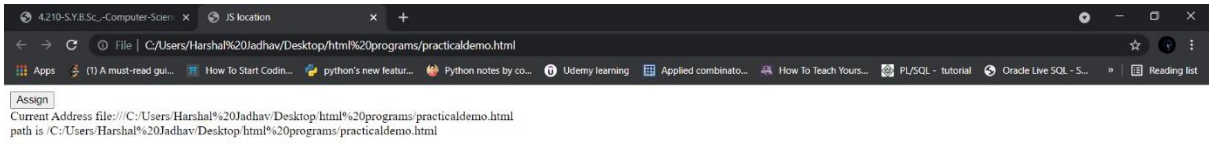
Output



Practical5b3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>JS location</title>
</head>
<body>
<button onclick="as()">Assign</button>
<br>
</body>
```

```
<script> document.write("Current Address " +
window.location.href) document.write("<br>")
document.write( "path is "+ window.location.pathname)
function as(){
window.location.assign("https://www.google.com")
}
</script>
</html>
```



Practical 6

Aim : Create a XML file with Internal / External DTD and display it using a. CSS b. XSL

Programs

In XML file (.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet href="data.xsl" type="text/xsl"?>
<data>
                    <student>
```

```
        <id>101</id>
        <name>Darshan</name>
        <class>SYCS</class>
    </student>
    <student>
        <id>102</id>
        <name>Shivangi</name>
        <class>SYCS</class>
    </student>
    <student>
        <id>103</id>
        <name>Karan</name>
        <class>SYCS</class>
    </student>
    <student>
        <id>104</id>
        <name>Ayushi</name>
        <class>SYCS</class>
    </student>
    <student>
        <id>105</id>
        <name>Aditya</name>
        <class>SYCS</class>
    </student>
</data>
```

In XSL file (.xsl)

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
 <html>
        <head>
```

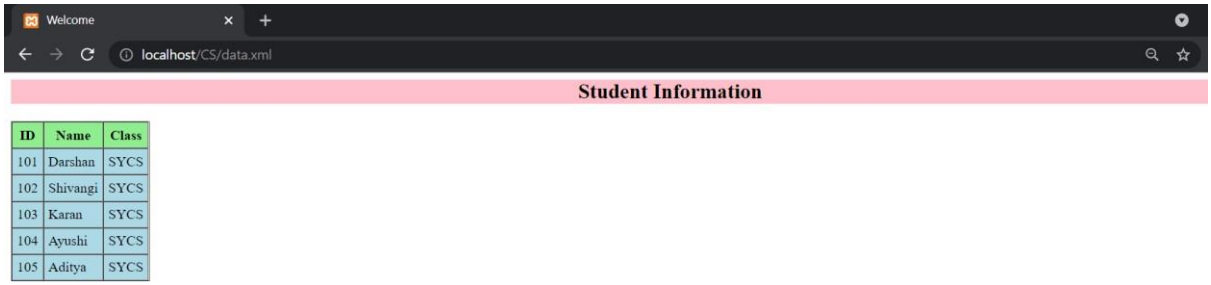
```
                <title>Welcome</title>
        <style>
        h2{
    background-color: pink;         text-align:
center;
        }
        th{
        background-color: lightgreen;
        }
        tr{
        background-color: lightblue;
        }
        </style>
        </head>
        <body>
                <h2>Student Information</h2>
        <table border="1" cellspacing="0" cellpadding="5">
        <tr>
                <th>ID</th>
                <th>Name</th>
                <th>Class</th>
        </tr>
        <xsl:for-each select="data/student">
        <tr>
                <td><xsl:value-of select="id"/></td>
                <td><xsl:value-of select="name"/></td>
                <td><xsl:value-of select="class"/></td>
        </tr>
        </xsl:for-each>
        </table>
</body>
```

</html>

</xsl:template>

</xsl:stylesheet>

Output



ID	Name	Class
101	Darshan	SYCS
102	Shivangi	SYCS
103	Karan	SYCS
104	Ayushi	SYCS
105	Aditya	SYCS