FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577

FOCUS ON EXCELLENCE

LABORATORY RECORD

20MCA133 WEB PROGRAMMING LAB

Name: ASHNA SHERIN A M

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 40

University Registration Number: FIT21MCA-2040

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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FOCUS ON EXCELLENCE

CERTIFICATE

This is to certify that this is a Bonafide record of the Practical work done by ***ASHNA SHERIN AM (FIT21MCA-2040)*** *in the* ***20MCA133 PROGRAMMING LAB*** *Laboratory towards the partial fulfilment for the award of the Master Of Computer Applications during the academic year 2021-2022.*

Signature of Staff in Charge

Name:

Signature of H O D

Name:

Date of University practical examination ……

Signature of
Internal Examiner

Signature of
External Examiner

CONTENT

11	**10/01/22**	Build a PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions.	**50**	
12	**10/01/22**	Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.	**52**	
13	**03/03/22**	Using PHP and MySQL, develop a program to accept book information viz.Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings	**54**	
14	**03/03/22**	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.	**60**	

EXPERIMENT NO :1

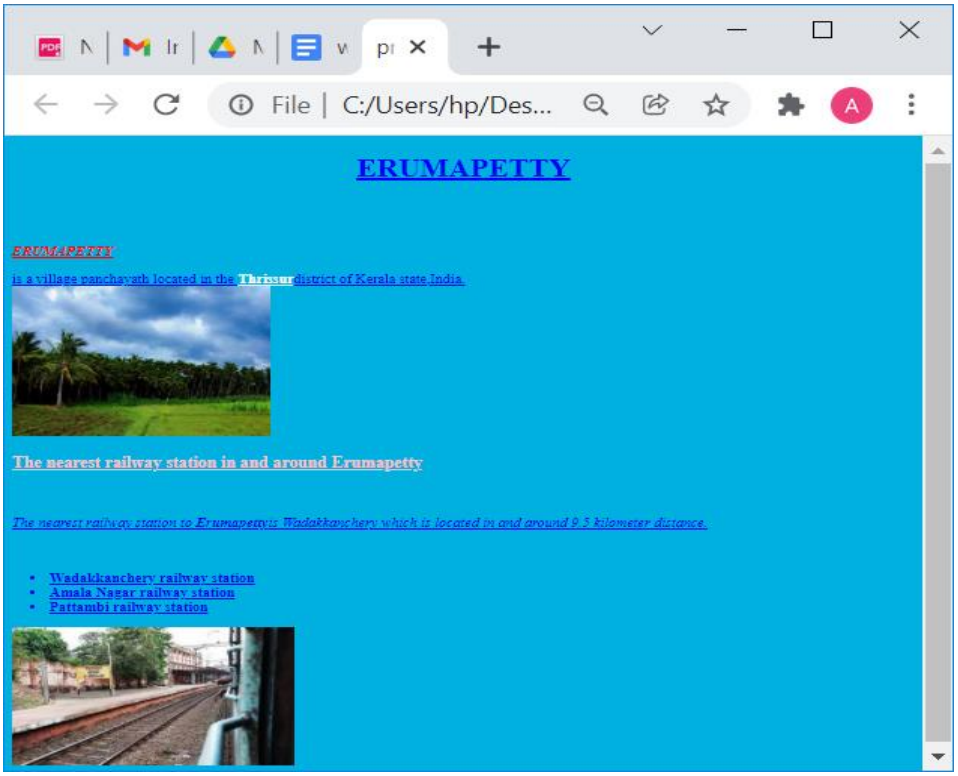
AIM

Model a simple HTML file related to your native place to demonstrate the usage of different tags.

PROGRAM CODE

```
<!doctype html>
<html>
<head><title>pro1</title></head>
<body bgcolor="sky blue"><a href="bio.html">
<h1 align="center"><b><font
color="blue"><u>ERUMAPETTY</u></font></b></h1><br><br>
<p><u><b><font
color="red"><i>ERUMAPETTY</i></font></b></u></p>is a village
panchayath located in the <b><font
color="white">Thrissur</font></b>district of Kerala
state,India.<br><img src="places.jpeg">
<b><font color="pink"><h3 align="left"><u>The nearest railway station
in and around Erumapetty</u></h3></font></b><br>
<p><i>The nearest railway station to <b>Erumapetty</b>is
Wadakkanchery which is located in and around 9.5 kilometer
distance.</i></p><br>
<ul><li><b>Wadakkanchery railway station </li>
<li>Amala Nagar railway station</li>
<li>Pattambi railway station</li></b></ul>
<img src="railway.jpeg">
</body></html>
```

OUTPUT


File | C:/Users/hp/Des...
ERUMAPETTY
ERUMAPETTY
is a village panchayath located in the Thrissurdistrict of Kerala state,India.
The nearest railway station in and around Erumapetty
The nearest railway station to Erumapettyis Wadakkanchery which is located in and around 9.5 kilometer distance.
Wadakkanchery railway station
Amala Nagar railway station
Pattambi railway station

EXPERIMENT NO :2

AIM

Create your biodata which contain multiple pages (include images , tables, and also link within a page).

PROGRAM CODE

bio.html

```
<!doctype html>
<html>
<head><title>biodata</title></head>
<body>
<h1 align="center"<B><font color="blue">BIODATA</font></h1>
<table border="2" align="center">
<tr><th>NAME</th><td>Ashna Sherin</td></tr>
<tr><th>IMAGE</th><td><img src="img.jpeg"alt="my
picture"></td></tr>
<tr><th>AGE</th><td>21</td></tr>
<tr><th>GENDER</th><td>Female</td></tr>
<tr><th> EMAIL-ID</th><td>ashnasherin2000@gmail.com</td></tr>
<tr><th>ADRESS</th><td>Arattil House,Kadangode
po,Erumapetty,Thrissur district</td></tr>
<tr><th>PLACE</th><td><a href="native1.html">Erumapetty</td></tr>
<tr><th>QUALIFICATION</th><td><a
href="college1.html">BCA</td></tr>
  </table></body></html>
```

native1.html

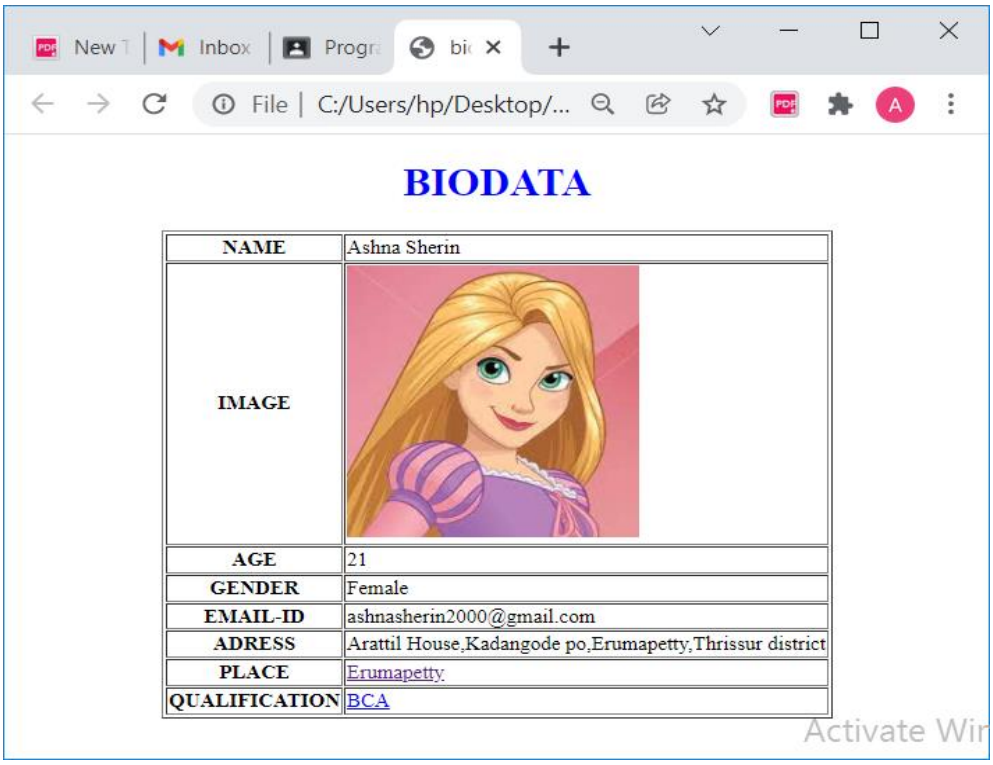
```
<!doctype html>
<html>
<head><title>pro1</title></head>
<body bgcolor="sky blue"><a href="bio.html">
```

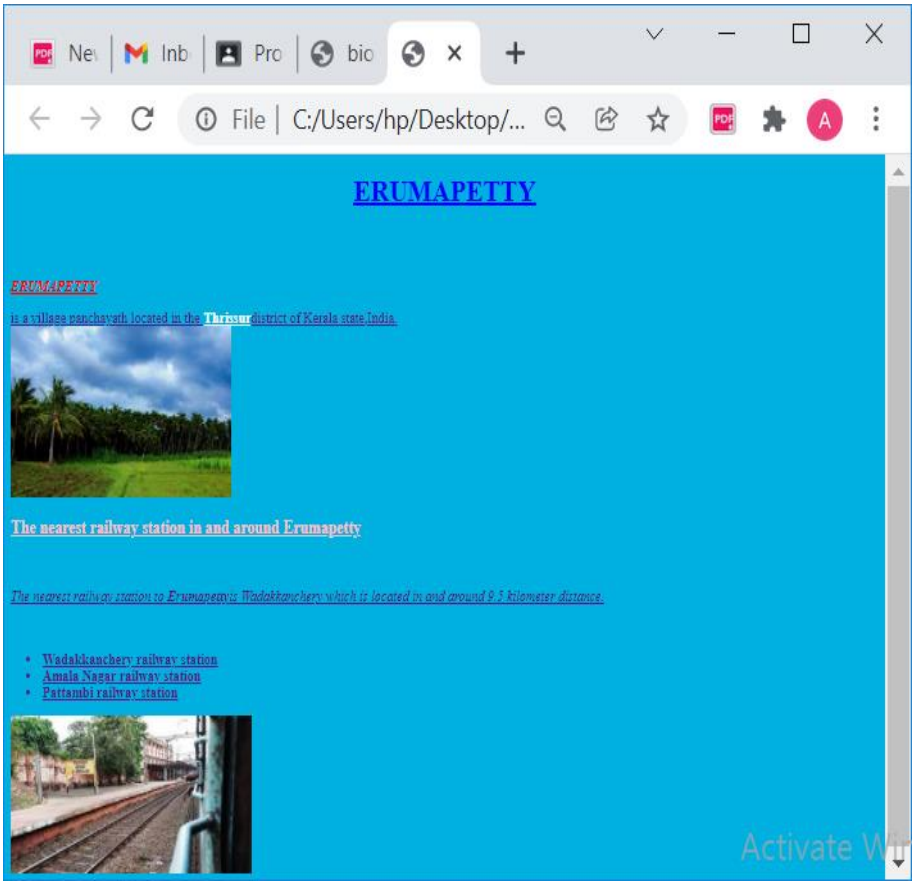
```
<h1 align="center"><b><font
color="blue"><u>ERUMAPETTY</u></font></b></h1><br><br>

<p><u><b><font
color="red"><i>ERUMAPETTY</i></font></b></u></p>is a village
panchayath located in the <b><font
color="white">Thrissur</font></b>district of Kerala
state,India.<br><img src="places.jpeg">

<b><font color="pink"><h3 align="left"><u>The nearest railway station
in and around Erumapetty</u></h3></font></b><br>

<p><i>The nearest railway station to <b>Erumapetty</b>is
Wadakkanchery which is located in and around 9.5 kilometer
distance.</i></p><br>

<ul><li><b>Wadakkanchery railway station </li>

<li>Amala Nagar railway station</li>

<li>Pattambi railway station</li></b></ul>

<img src="railway.jpeg">

</body></html>
```

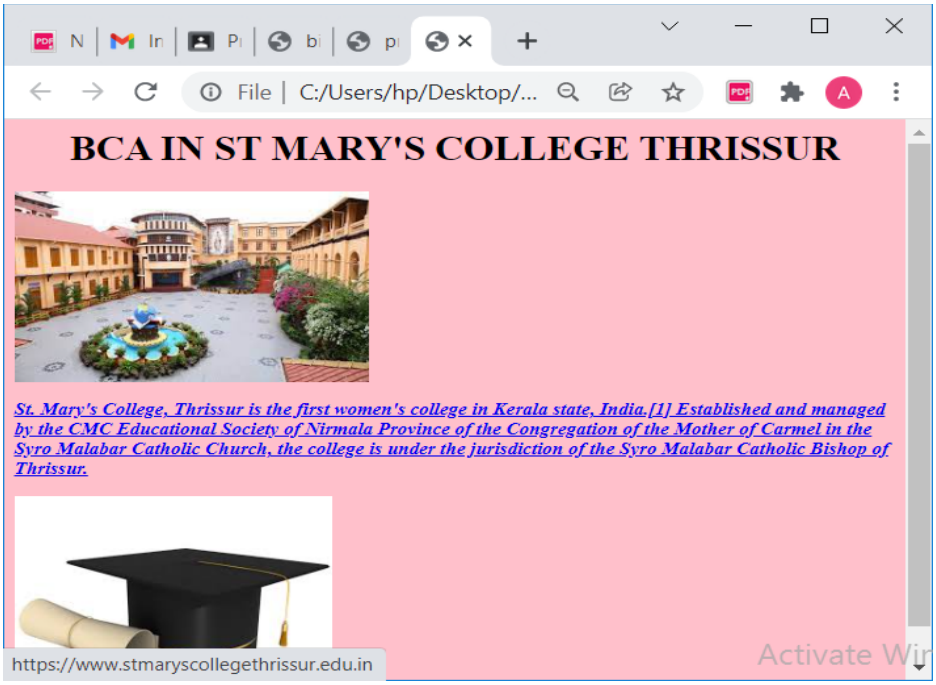
College1.html

```
<html>

<head><title>bca</title></head>

<body bgcolor="pink"><h1 align="center">BCA IN ST MARY'S
COLLEGE THRISSUR</h1>

<img src="college.jpeg"><br>

<p><i><b><a href="https://www.stmaryscollegethrissur.edu.in">

St. Mary's College, Thrissur is the first women's college in Kerala state,
India.[1] Established and managed by the CMC Educational Society of
Nirmala Province of the Congregation of the Mother of Carmel in the
Syro Malabar Catholic Church, the college is under the jurisdiction of the
Syro Malabar Catholic Bishop of Thrissur.</b></i></p>

<img src="bca.jpeg"></body></html>
```

OUTPUT


New T
Inbox
Progr
bi
File | C:/Users/hp/Desktop/...
BIODATA
NAME
Ashna Sherin
IMAGE
AGE
21
GENDER
Female
EMAIL-ID
ashnasherin2000@gmail.com
ADRESS
Arattil House,Kadangode po,Erumapetty,Thrissur district
PLACE
Erumapetty
QUALIFICATION
BCA
Activate Wir


Ne
Inb
Pro
bio
File | C:/Users/hp/Desktop/...
ERUMAPETTY
ERUMAPETTY
is a village panchayath located in the Thrissur district of Kerala state,India
The nearest railway station in and around Erumapetty
The nearest railway station to Erumapetty is Wadakkanchery which is located in and around 9.5 kilometer distance.
Wadakkanchery railway station
Amala Nagar railway station
Pattambi railway station
Activate Wi


File | C:/Users/hp/Desktop/...
BCA IN ST MARY'S COLLEGE THRISSUR
St. Mary's College, Thrissur is the first women's college in Kerala state, India.[1] Established and managed by the CMC Educational Society of Nirmala Province of the Congregation of the Mother of Carmel in the Syro Malabar Catholic Church, the college is under the jurisdiction of the Syro Malabar Catholic Bishop of Thrissur.
https://www.stmaryscollegethrissur.edu.in
Activate Wi

EXPERIMENT NO :3

AIM

Create an application form for MCA course in FISAT.

PROGRAM CODE

```
<html>

<head>

<title>Form for mca</title>

</head>

<body bgcolor="cyan">

<img src="index.jpg" align="left" alt="My picture" >

<h1 align="center"><font face="arrial" size="+4" color="blue"
weight="500">Fedral Institute of Science and Technology</font></h1>

<h2 align="center"><font face="arrial" size="+3" color="blue"
weight="500">FISAT</font></h2>

<h3 align="center">MCA Admission</h3>

<form>

<b>Personal Details</b><br><br>

Name          &
nbsp         &n
bsp;   <input name="name" type="text"
size="50"><br><br>

Permanent Address  <textarea name="address" rows="5"
cols="50"></textarea><br><br>

Mobile         &
nbsp;         &
nbsp  <input name="mobile" type="number"
size="50"><br><br>

Alternative Phn.no   <input
name="alternativenumber" type="number" size="50"><br><br>

Address for communication<br>

Same as permanent address<input type="checkbox" name="address"
value="address"><br><br>
```

E-
mail   <input name="email" type="email" size="50">

Date of
Birth   <input type="date">

Gender

Male<input type="radio" name="gender" value="gender">

Female<input type="radio" name="gender" value="gender">

Nationality   <input name="nation" type="text" size="50">

Religion

<select name="religion">

<option>Hindu

<option>Christian

<option>Muslim

<option>Others</select>

Community<input name="community" type="text" size="20">

Category

<select name="category">

<option>General

<option>SC

<option>ST

<option>OBC

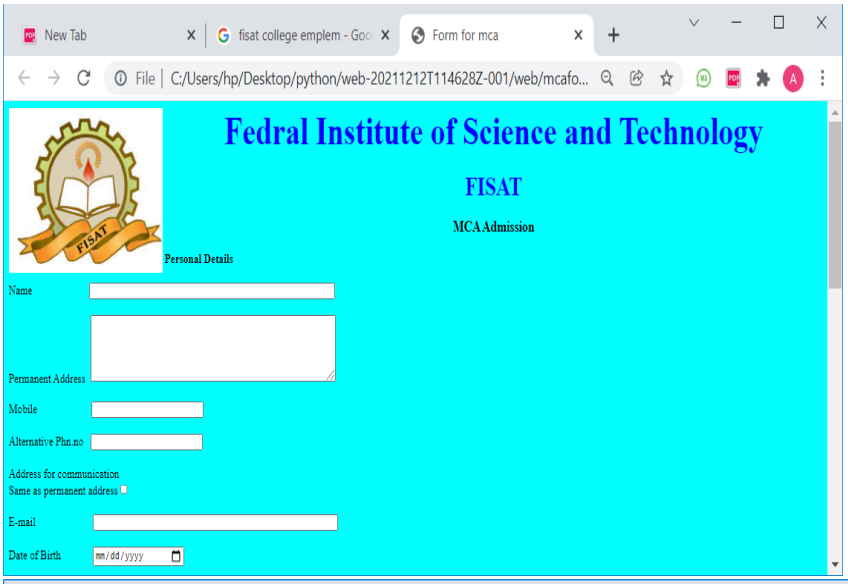
<option>OEC

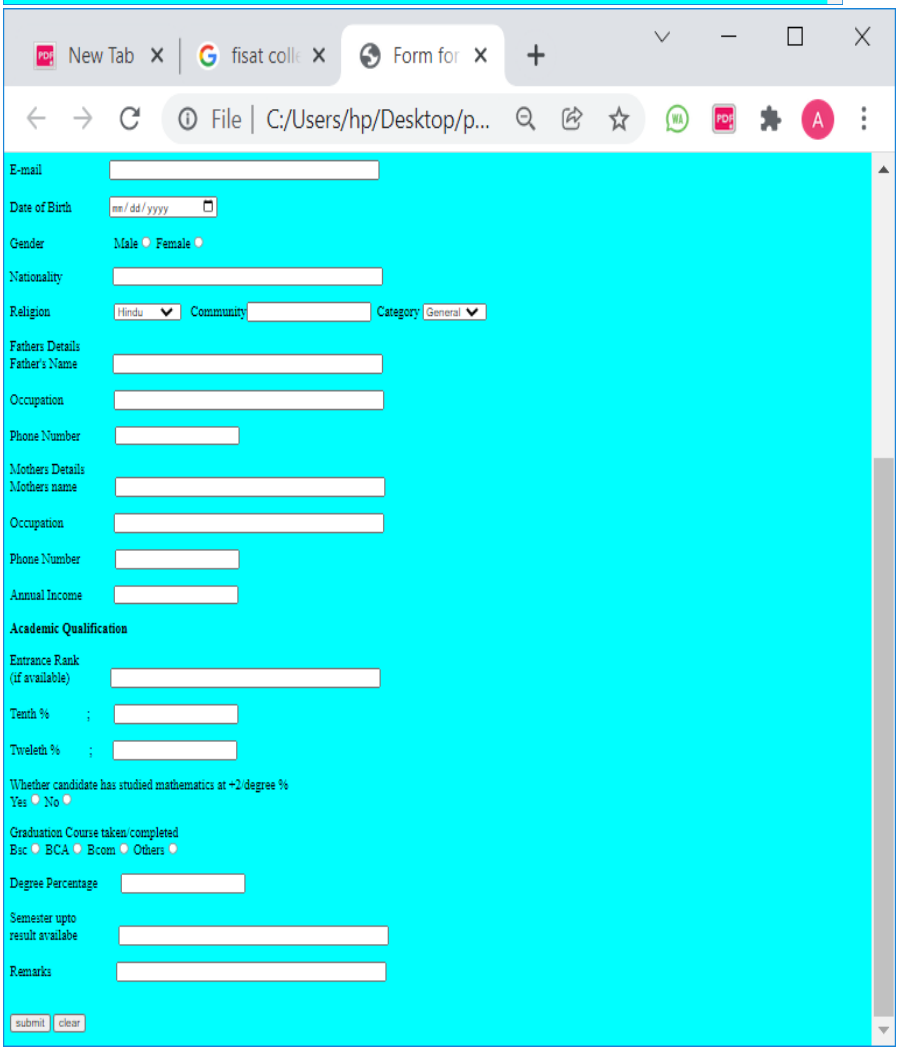
<option>Others</select>


```
Fathers Details<br>

Father's
Name         &n
bsp;  <input name="details" type="text"
size="50"><br><br>

Occupation        &n
bsp;        <input
name="occupation" type="text" size="50"><br><br>

Phone
Number         
   <input name="number" type="number"
size="50"><br><br>

Mothers Details<br>

Mothers
name         &nb
sp;   <input name="details" type="text"
size="50"><br><br>

Occupation        &nb
sp;        <input
name="occupation" type="text" size="50"><br><br>

Phone
Number         
   <input name="number" type="number"
size="50"><br><br>

Annual
Income         
  <input name="income" type="number"
size="50"><br><br>

<b>Academic Qualification</b><br><br>

Entrance Rank<br>(if
available)         
     <input name="rank" type="text"
size="50"><br><br>

Tenth %
          &n
bsp ;        <inp
ut name="percentage" type="number" size="50"><br><br>
```

```
Tweleth %
         ;       <input name="percentage" type="number" size="50"><br><br>

Whether candidate has studied mathematics at +2/degree %<br>

Yes<input type="radio" name="yes" value="yes">

No<input type="radio" name="no" value="no"><br><br>

Graduation Course taken/completed<br>

Bsc<input type="radio" name="bsc" value="bsc">

BCA<input type="radio" name="bca" value="bca">

Bcom<input type="radio" name="bcom" value="bcom">

Others<input type="radio" name="other" value="other"><br><br>

Degree Percentage        <input name="percentage" type="number" size="50"><br><br>

Semester upto<br> result availabe              <input name="result" type="text" size="50"><br><br>

Remarks                       <input name="remark" type="text" size="50"><br><br><br>

<input type="submit" name="submit" value="submit">

<input type="reset" name="clear" value="clear"

</form>

</body>

</html>
```

OUTPUT


New Tab
fisat college emplem - Goo
Form for mca
File | C:/Users/hp/Desktop/python/web-20211212T114628Z-001/web/mcafo...
Fedral Institute of Science and Technology
FISAT
MCA Admission
Personal Details
Name
Permanent Address
Mobile
Alternative Phn.no
Address for communication
Same as permanent address
E-mail
Date of Birth
mm/dd/yyyy


New Tab
fisat coll
Form for
File | C:/Users/hp/Desktop/p...
E-mail
Date of Birth
mm/dd/yyyy
Gender
Male
Female
Nationality
Religion
Hindu
Community
Category
General
Fathers Details
Father's Name
Occupation
Phone Number
Mothers Details
Mothers name
Occupation
Phone Number
Annual Income
Academic Qualification
Entrance Rank
(if available)
Tenth %
Tweleth %
Whether candidate has studied mathematics at +2/degree %
Yes
No
Graduation Course taken/completed
Bsc
BCA
Bcom
Others
Degree Percentage
Semester upto
result availabe
Remarks
submit
clear

EXPERIMENT NO :4

AIM

Create a HTML page with different types of frames such as floating frame, navigation frame & mixed frame.

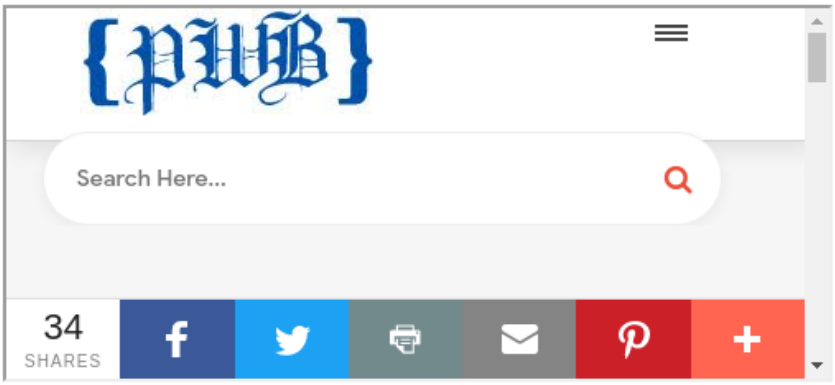
PROGRAM CODE

FLOATING FRAME

CODE

```
<html>
<body>
<p>
<iframe src="https://www.programmingwithbasics.com/2016/04/create-html-page-with-different-types.html" height="225" width="500">
</iframe>
</body>
</html>
```

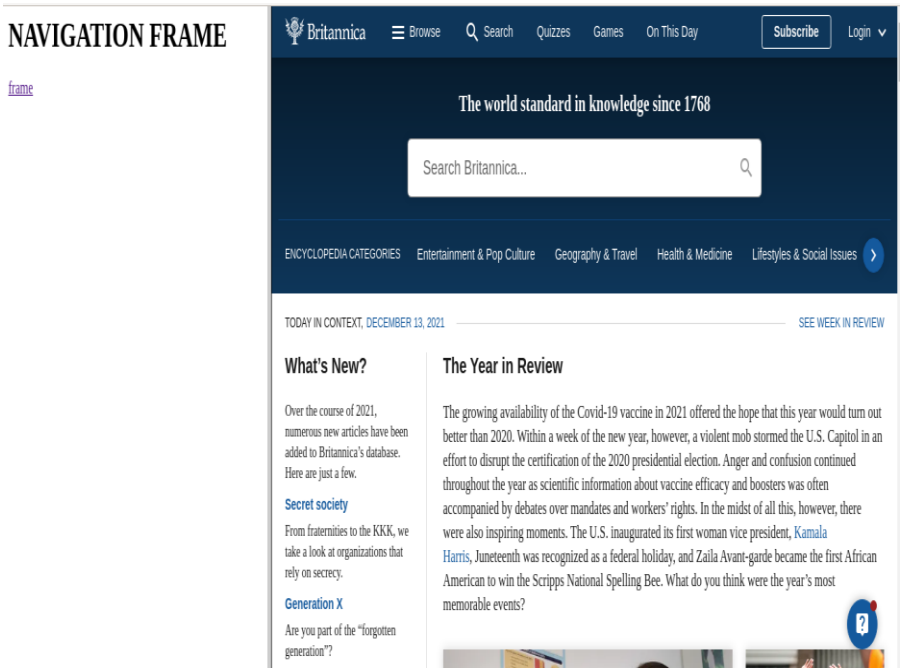
OUTPUT



NAVIGATION FRAME

```
<html>
<head>
<title>navigation</title>
</head>
<frameset cols="400,*">
<frame src="page.html" name="showframe">
<frame name="showframe2">
</frameset>
</html>

<html>
<h1>NAVIGATION FRAME</h1>
<a href = "https://www.britannica.com/"
target="showframe2">frame</a>
</html>
```

OUTPUT

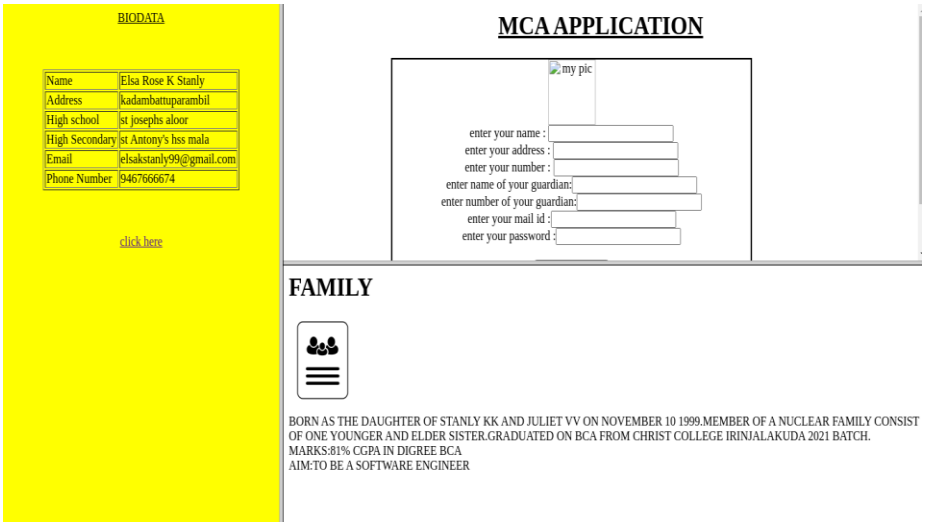


MIXED FRAME

CODE

```
<html>
<frameset cols="30%,*">
<frame src="pic.html"></frame>
<frameset rows="50%,*">
<frame src="video.html" autostart="true">
<frame src="Q3.html" >
</frameset>
</frameset>
</html>
```

OUTPUT



EXPERIMENT NO :5

AIM

Analyze CSS by applying the different styles using inline, external and internal style sheets in a HTML file.

PROGRAM CODE

INLINE

CODE

```
<!DOCTYPE html>
<html>
<body>
<h1 style="color:blue;text-align:center;">NATURE</h1>
<p style="color:red;">Nature is a British weekly scientific journal founded and based in London, England. As a multidisciplinary publication, Nature features peer-reviewed research from a variety of academic disciplines, mainly in science and technology. </p>
</body>
</html>
```

OUTPUT

INTERNAL

CODE

```
<!DOCTYPE html>
```

```
<html>
<head>
<style>
body {
  background-color: linen;
}

h1 {
  color: maroon;
  margin-left: 40px;
}
</style>
</head>
<body>

<h1>NATURE</h1>
<p>Nature is a British weekly scientific journal founded and based in London, England. As a multidisciplinary publication, Nature features peer-reviewed research from a variety of academic disciplines, mainly in science and technology.</p>

</body>
</html>
```

OUTPUT

EXTERNAL

CODE

```
<html>
<head>
<link rel="stylesheet" href="mystyle.css"> </head>
<body>
<h1>EXAMPLE</h1>
<p>it is an example for external css </p> </body>
</html>
```

mystyle.css

```
body{
 background-color:pink;
 }
h1
 {
 color:white;
 margin-left:20px;
}
```

OUTPUT

EXPERIMENT NO :6

AIM

Create a HTML registration form and to validate the form using JavaScript code.

PROGRAM CODE

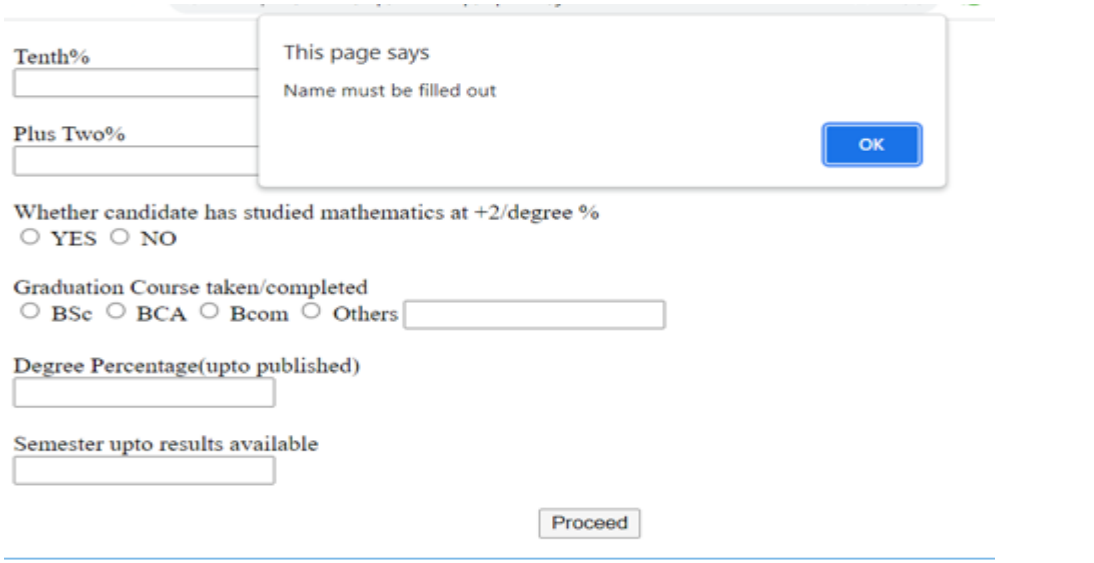
```
<html>
<head>
<script>
function validateForm() {
 let x = document.forms["myForm"]["name"].value;
 if (x == "") {
 alert("Name must be filled out");
 return false;
 }
 let y = document.forms["myForm"]["ad1"].value;
 if (y == "") {
 alert("address must be filled out");
 return false;
 }
 let z = document.forms["myForm"]["city"].value;
 if (z == "") {
 alert("city must be filled out");
 return false;
 }
 let a = document.forms["myForm"]["email"].value;
 if (a == "") {
 alert("email must be filled out");
 return false;
 }
```

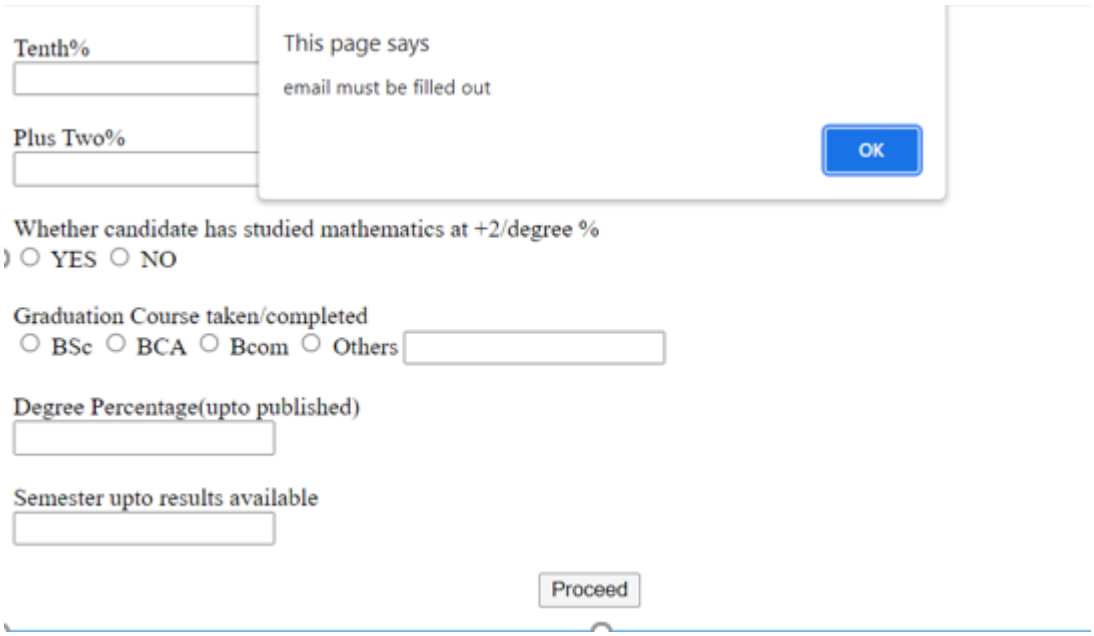
```
let b = document.forms["myForm"]["dob"].value;
if (b == "") {
alert("dob must be filled out");
return false;
}
let c = document.forms["myForm"]["degree"].value;
if (c == "") {
alert("degree percentage must be filled out");
return false;
}

}
</script>
<title>Application for admission
</title>
</head>
<body>
<center>
<img src="https://fisat.ac.in/files/events/5725291883.jpg"
height="100px" width="150px">
</center>
<h1 align="center">Federal Institute of Science And Technology
(FISAT)</h1>
<form name="myForm" action="/action_page.php" onsubmit="return
validateForm()"
method="post">
Name<br><input name="name" type="text" size="20"><br>
<h3>Address</h3>
Address<br><input name="ad1" type="text" size="40"><br><br>
```

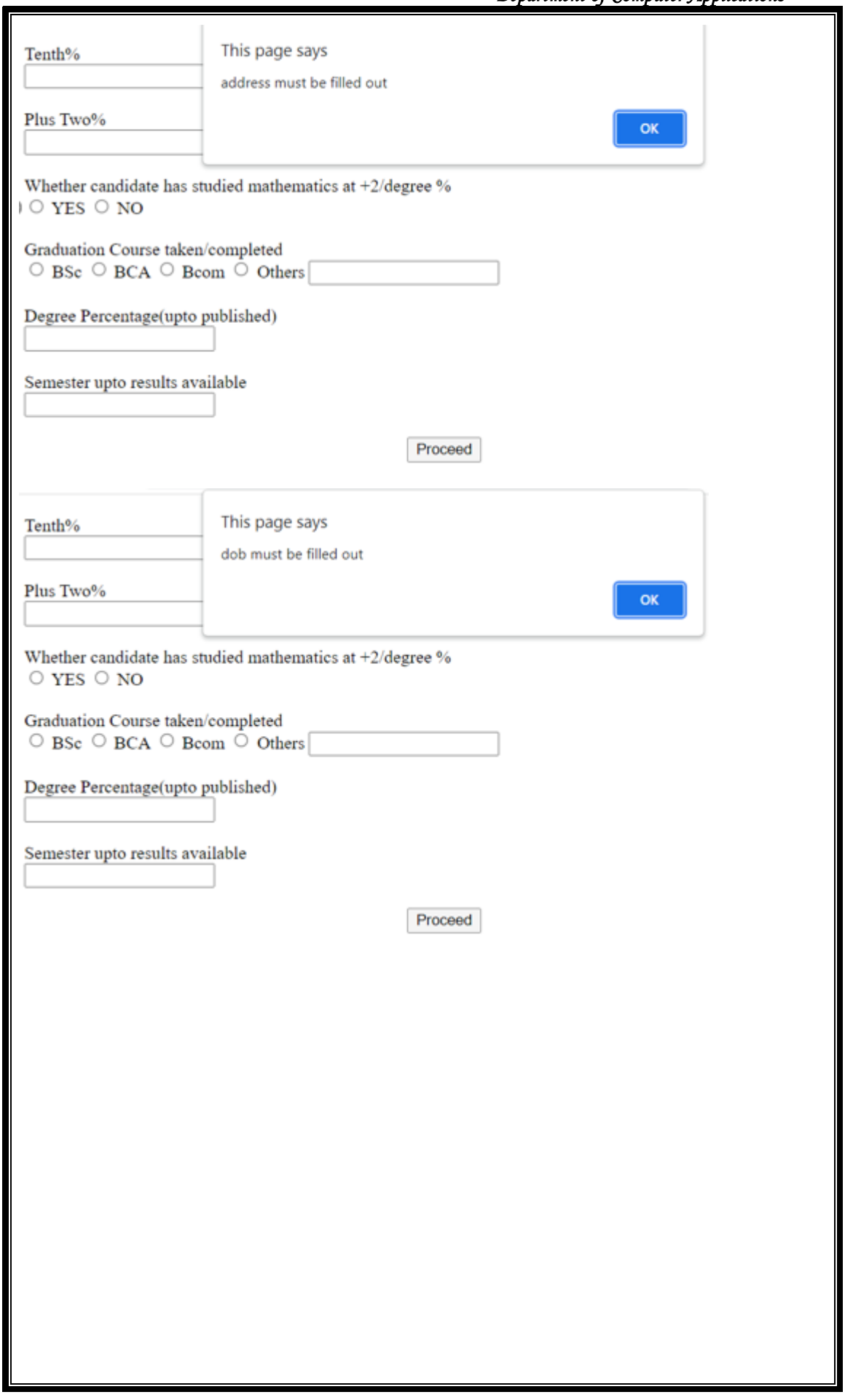
```
City        <input
name="city" type="text"

size="20">    

 State      <input name="state"
type="text"

size="20"><br><br>

Country  <input name="country" type="text"
size="20">   

Pincode  <input name="pincode" type="number"
size="6"><br><br>

Mobile Number<br><input name="mobile" type="number"
size="10"><br><br>

<h4>Email Id</h4><br><input name="email" type="email"
size="20"><br><br>

<label for="dob">Date Of Birth : </label>

<input type = "date" id="dob" name="dob">

<h4>Gender</h4>

<input type="radio" name="gender" value=male>

Male

<input type="radio" name="gender" value=female>

Female<br><br>

<h2>Academic Qualification</h2>

Entrance Rank(if available)<br><input name="erank" type="number"
size="2000"><br><br>

Tenth%<br><input name="10th" type="number" size="100"><br><br>

Plus Two%<br><input name="plustwo" type="number"
size="100"><br><br>

Whether candidate has studied mathematics at +2/degree %<br>

<input type="radio" name="maths?" value=yes>

YES

<input type="radio" name="maths?" value=no>
```

```
NO<br><br>
Graduation Course taken/completed
<br>
<input type="radio" name="course" value=Bsc>
BSc
<input type="radio" name="course" value=BCA>
BCA
<input type="radio" name="course" value=Bcom>
Bcom
<input type="radio" name="course" value=Others>
Others <input name="others" type="text" size="20"><br><br>
Degree Percentage(upto published)<br><input name="degree"
type="number"
size="100"><br><br>
Semester upto results available<br><input name="sem" type="number"
size="100"><br><br>
<center>
<input type="Submit" name="send" value="Proceed"></center>
</form>
</body>
</html>
```

OUTPUT


This page says
Name must be filled out
OK
Tenth%
Plus Two%
Whether candidate has studied mathematics at +2/degree %
YES NO
Graduation Course taken/completed
BSc BCA Bcom Others
Degree Percentage(upto published)
Semester upto results available
Proceed


This page says
email must be filled out
OK
Tenth%
Plus Two%
Whether candidate has studied mathematics at +2/degree %
YES NO
Graduation Course taken/completed
BSc BCA Bcom Others
Degree Percentage(upto published)
Semester upto results available
Proceed


Tenth%
This page says
address must be filled out
OK
Plus Two%
Whether candidate has studied mathematics at +2/degree %
YES NO
Graduation Course taken/completed
BSc BCA Bcom Others
Degree Percentage(upto published)
Semester upto results available
Proceed
Tenth%
This page says
dob must be filled out
OK
Plus Two%
Whether candidate has studied mathematics at +2/degree %
YES NO
Graduation Course taken/completed
BSc BCA Bcom Others
Degree Percentage(upto published)
Semester upto results available
Proceed

EXPERIMENT NO :7

AIM

Create a HTML page to explain the use of various predefined functions in a string and math objects in Javascript.

PROGRAM CODE

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String Properties</h2>

<p><b>The length property returns the length of a string:</b></p>

<p id="demo1"></p>
<script>
let text1 = "ASHNASHERIN";
document.getElementById("demo1").innerHTML = text1.length;
</script>
<h2>slice</h2>
<p><b>The slice() method extract a part of a string
and returns the extracted parts in a new string:</b></p>
<p id="demo2"></p>
<script>
let text2 = "Apple, Banana, mango";
document.getElementById("demo2").innerHTML = text2.slice(7,13);
</script>
<h2>substring</h2>
<p>The substring() method extract a part of a string and returns the extracted parts in a new string:</p>
<p id="demo3"></p>
```

```
<script>
let text3 = "English, computer, maths";
document.getElementById("demo3").innerHTML =
text3.substring(7,13);
</script>
<h2>Replace</h2>
<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>

<button onclick="myFunction()">Try it</button>

<p id="demo4">Please visit Microsoft!</p>

<script>
function myFunction() {
  let text = document.getElementById("demo4").innerHTML;
  document.getElementById("demo4").innerHTML =
  text.replace("Microsoft","W3Schools");
}
</script>
<h2>Uppercase</h2>
<p>Convert string to upper case:</p>

<button onclick="myFunction2()">Try it</button>

<p id="demo5">Hello World!</p>

<script>
function myFunction2() {
  let text = document.getElementById("demo5").innerHTML;
  document.getElementById("demo5").innerHTML =
  text.toUpperCase();
```

```
}
</script>
<h2>Lowercase</h2>
<p>Convert string to lower case:</p>

<button onclick="myFunction3()">Try it</button>

<p id="demo6">Hello World!</p>

<script>
function myFunction3() {
  let text = document.getElementById("demo6").innerHTML;
  document.getElementById("demo6").innerHTML =
  text.toLowerCase();
}
</script>
<h2>Concateanate</h2>
<p>The concat() method joins two or more strings:</p>

<p id="demo7"></p>

<script>
let texta = "Hello";
let textb= "World!";
let textc = text1.concat(" ",textb);
document.getElementById("demo7").innerHTML = textc;
</script>
<h2>Trim</h2>
<p id="demo8"></p>

<script>
```

```
let text4 = "     Hello World!     ";
let text5= text1.trim();

document.getElementById("demo8").innerHTML =
"Length text4=" + text4.length + "<br>Length2 text5=" + text5.length;
</script>
<h2>charAt</h2>

<p>The charAt() method returns the character at a given position in a string:</p>

<p id="demo9"></p>

<script>
let text0 = "HELLO WORLD";
document.getElementById("demo9").innerHTML = text0.charAt(0);
</script>
<h2>split</h2>
<p>Display the first array element, after a string split:</p>

<p id="demo10"></p>

<script>
let text10 = "a,b,c,d,e,f";
const myArray = text10.split(",");
document.getElementById("demo10").innerHTML = myArray[0];
</script>
<h2>Indexof</h2>

<p>The indexOf() method returns the position of the first occurrence of a specified text:</p>
```

```
<p id="demo11"></p>

<script>
let str11 = "Please locate where 'locate' occurs!";
document.getElementById("demo11").innerHTML =
str11.indexOf("locate");
</script>
<h2>search</h2>
<p>The search() method returns the position of the first occurrence of a
specified text in a string:</p>

<p id="demo13"></p>

<script>
let str13 = "Please locate where 'locate' occurs!";
document.getElementById("demo13").innerHTML =
str13.search("locate");
</script>
<h2>Includes</h2>
<p>Check if a string includes "world":</p>

<p id="demo14"></p>

<p>The includes() method is not supported in Internet Explorer.</p>

<script>
let text14 = "Hello world, welcome to the universe.";
document.getElementById("demo14").innerHTML =
text14.includes("world");
</script>
<h2>round</h2>
```

```
<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>

<p id="demo15"></p>

<script>
document.getElementById("demo15").innerHTML = Math.round(4.5);
</script>
<h2>ceil</h2>
<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:</p>

<p id="demo16"></p>

<script>
document.getElementById("demo16").innerHTML = Math.ceil(4.4);
</script>
<h2>floor</h2>
<p>Math.floor(x) returns the value of x rounded <strong>down</strong> to its nearest integer:</p>

<p id="demo17"></p>

<script>
document.getElementById("demo17").innerHTML = Math.floor(4.7);
</script>
<h2>trunc</h2>
<p>Math.trunc(x) returns the integer part of x:</p>

<p id="demo18"></p>

<script>
```

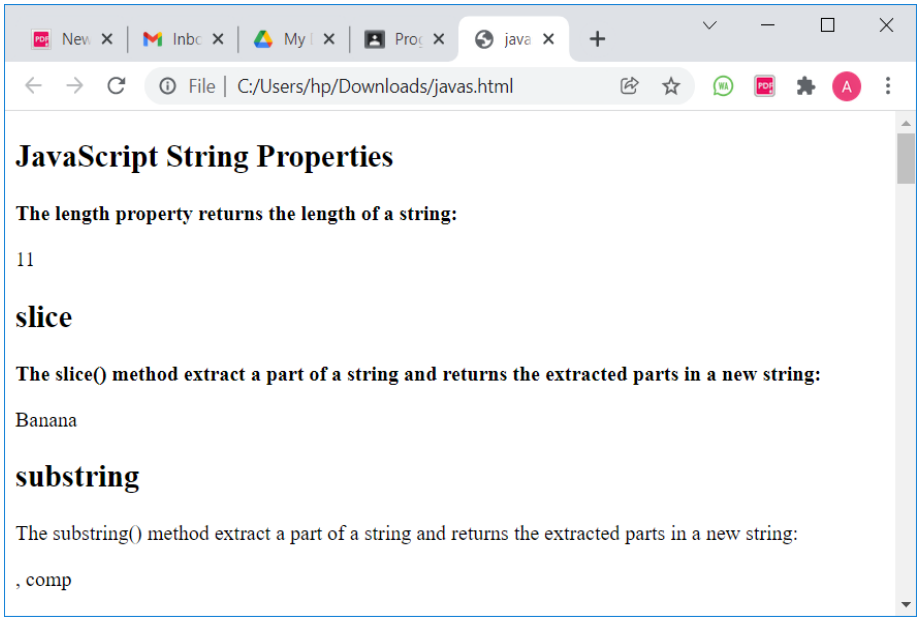
```
document.getElementById("demo18").innerHTML = Math.trunc(4.7);
</script>
<h2>sign</h2>
<p>Math.sign(x) returns if x is negative, null or positive:</p>

<p id="demo19"></p>

<script>
document.getElementById("demo19").innerHTML = Math.sign(4);
</script>
<h2>power</h2>
<p>Math.pow(x,y) returns the value of x to the power of y:</p>

<p id="demo20"></p>

<script>
document.getElementById("demo20").innerHTML = Math.pow(8,2);
</script>
<h2>JavaScript Math.sqrt()</h2>

<p>Math.sqrt(x) returns the square root of x:</p>

<p id="demo21"></p>

<script>
document.getElementById("demo21").innerHTML = Math.sqrt(64);
</script>
<h2>JavaScript Math.abs()</h2>

<p>Math.abs(x) returns the absolute (positive) value of x:</p>

<p id="demo22"></p>
```

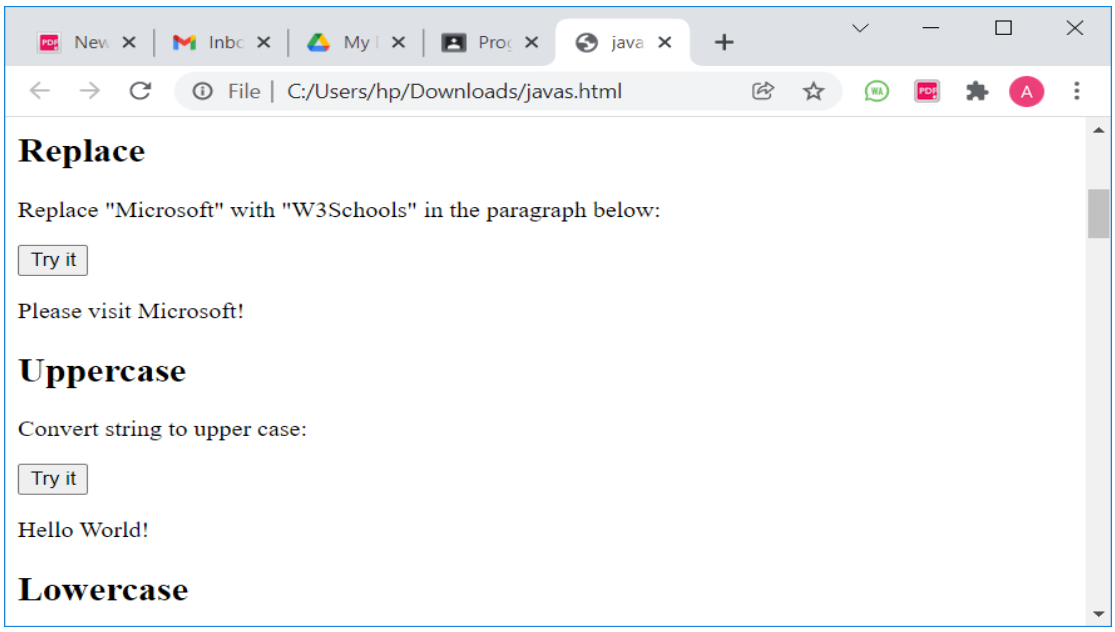
```
<script>
document.getElementById("demo22").innerHTML = Math.abs(-4.4);
</script>
<h2>JavaScript Math.sin()</h2>

<p>Math.sin(x) returns the sin of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>

<p id="demo23"></p>

<script>
document.getElementById("demo23").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
</script>
<h2>JavaScript Math.cos()</h2>

<p>Math.cos(x) returns the cosine of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>

<p id="demo24"></p>

<script>
document.getElementById("demo24").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
</script>

<h2>JavaScript Math.min()</h2>

<p>Math.min() returns the lowest value in a list of arguments:</p>

<p id="demo25"></p>
```

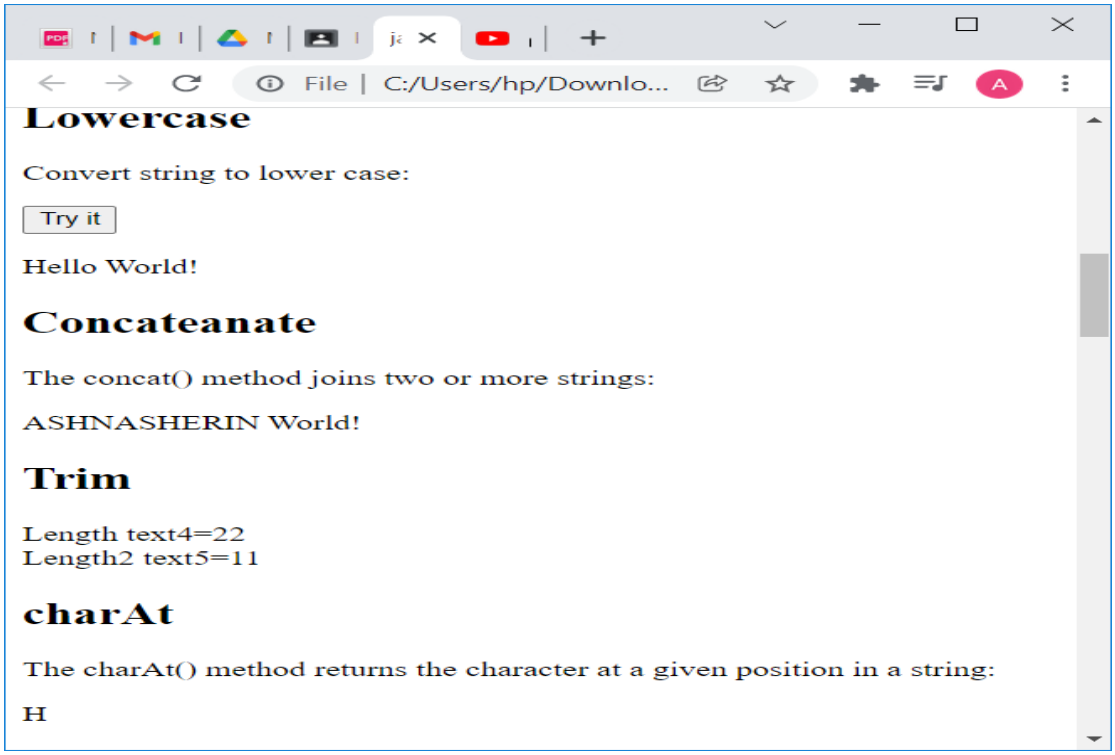
```
<script>
document.getElementById("demo25").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>
<h2>JavaScript Math.max()</h2>

<p>Math.max() returns the highest value in a list of arguments.</p>

<p id="demo26"></p>

<script>
document.getElementById("demo26").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
</script>

<h2>JavaScript Math.random()</h2>

<p>Math.random() returns a random number between 0 and 1:</p>

<p id="demo27"></p>

<p>Tip: Click on "Run" several times.</p>

<script>
document.getElementById("demo27").innerHTML = Math.random();
</script>

<h2>JavaScript Math.log()</h2>

<p>Math.log() returns the natural logarithm of a number:</p>

<p id="demo28"></p>
```

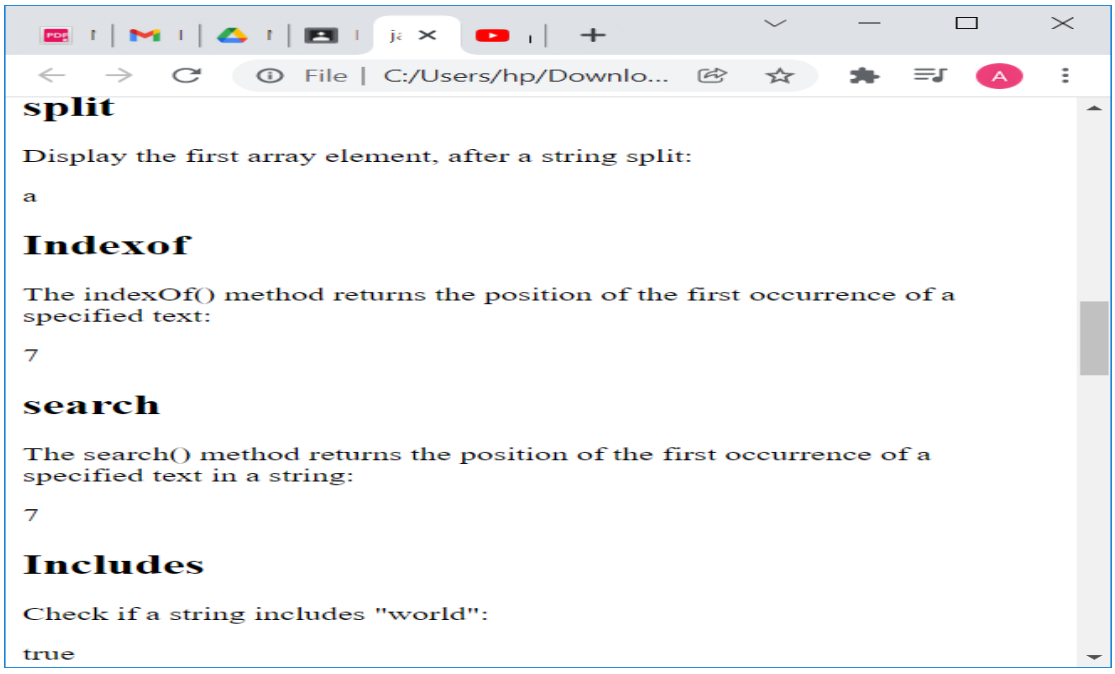
```
<script>
document.getElementById("demo28").innerHTML = Math.log(1);
</script>
</body></html>
```

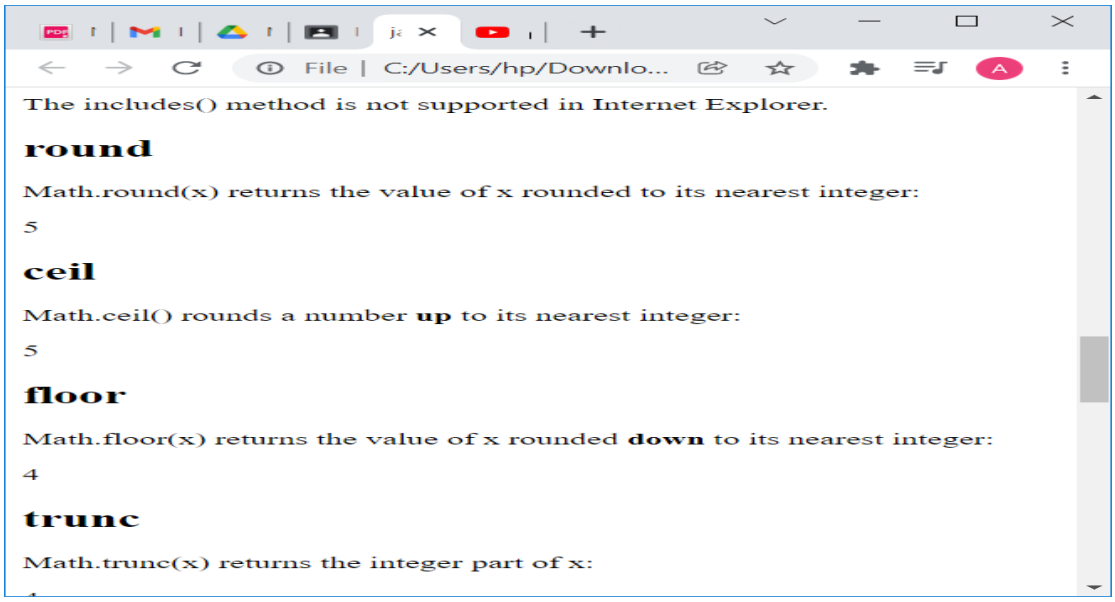
OUTPUT

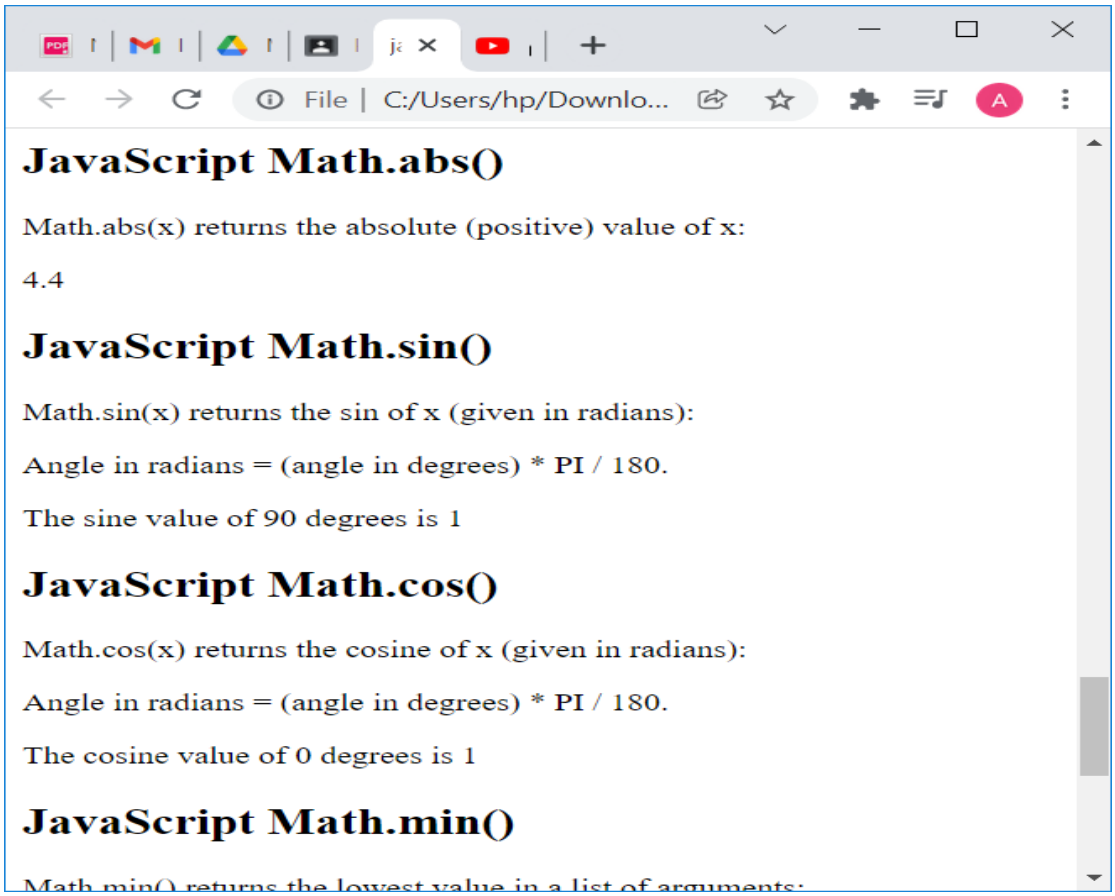


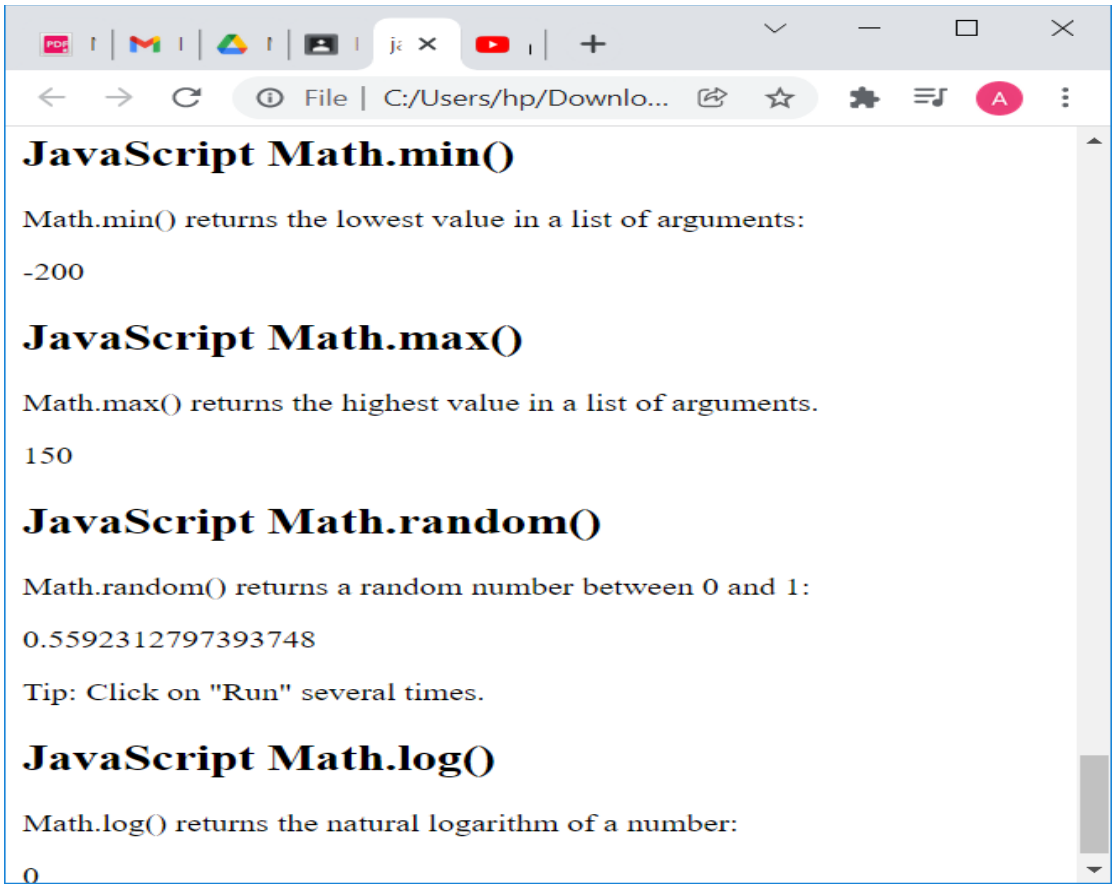



File | C:/Users/hp/Downlo...
Lowercase
Convert string to lower case:
Try it
Hello World!
Concateanate
The concat() method joins two or more strings:
ASHNASHERIN World!
Trim
Length text4=22
Length2 text5=11
charAt
The charAt() method returns the character at a given position in a string:
H


File | C:/Users/hp/Downlo...
split
Display the first array element, after a string split:
a
Indexof
The indexOf() method returns the position of the first occurrence of a specified text:
7
search
The search() method returns the position of the first occurrence of a specified text in a string:
7
Includes
Check if a string includes "world":
true


File | C:/Users/hp/Downlo...
The includes() method is not supported in Internet Explorer.
round
Math.round(x) returns the value of x rounded to its nearest integer:
5
ceil
Math.ceil() rounds a number up to its nearest integer:
5
floor
Math.floor(x) returns the value of x rounded down to its nearest integer:
4
trunc
Math.trunc(x) returns the integer part of x:


File | C:/Users/hp/Downlo...
JavaScript Math.abs()
Math.abs(x) returns the absolute (positive) value of x:
4.4
JavaScript Math.sin()
Math.sin(x) returns the sin of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
The sine value of 90 degrees is 1
JavaScript Math.cos()
Math.cos(x) returns the cosine of x (given in radians):
Angle in radians = (angle in degrees) * PI / 180.
The cosine value of 0 degrees is 1
JavaScript Math.min()


File | C:/Users/hp/Downlo...
JavaScript Math.min()
Math.min() returns the lowest value in a list of arguments:
-200
JavaScript Math.max()
Math.max() returns the highest value in a list of arguments.
150
JavaScript Math.random()
Math.random() returns a random number between 0 and 1:
0.5592312797393748
Tip: Click on "Run" several times.
JavaScript Math.log()
Math.log() returns the natural logarithm of a number:
0

EXPERIMENT NO :8

AIM

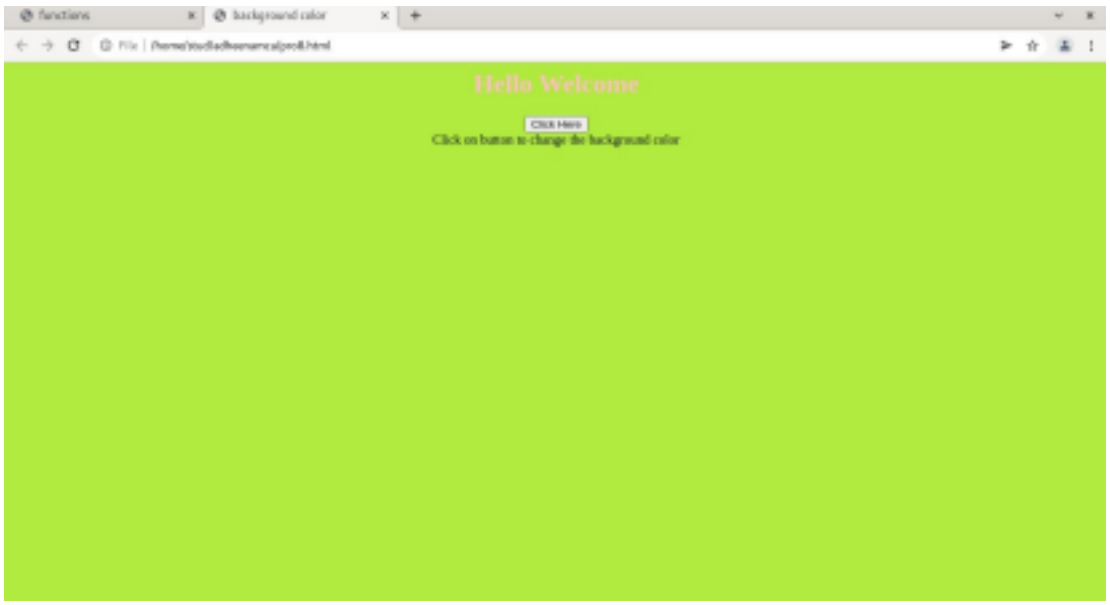
Create a HTML page to change the background color for every click of a button using JavaScript Event Handling

PROGRAM CODE

```
<html>
<head>
<title>
background color
</title>
</head>
<body style = "text-align:center;">
<h1 style = "color:pink;" >
 Hello Welcome
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click Here </button>
<br>
<script>
document.writeln( "Click on button to change the background color");
const pageBody = document.querySelector("body");
function changeBg()
{
let color = '#'+(Math.random()*0xFFFFFF<<0).toString(16);
pageBody.style.background = color;
}
</script>
</body>
```

```
</html>
```

OUTPUT


Hello Welcome
Click Here
Click on button to change the background color

EXPERIMENT NO :9

AIM

Generate the calendar using JavaScript code by getting the year and month from the user.

PROGRAM CODE

```
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
}
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
}
th {
font-weight: bold;
background-color: grey;
}
</style>
</head>
<body>
<b>CALENDAR</b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" />
<br>
```

```
<button onclick="calculate()">Click here</button>


<div id="calendar"></div>
<script>
function calculate()  {


   var year = document.getElementById("cal").value;
    var month = document.getElementById("month").value;
    createCalendar(year,month);
}
function getDay(date) {
    let day = date.getDay();
    if (day == 0) day = 7;
    return day - 1;
}
function createCalendar(year, month) {
    let mon = month - 1;
    let d = new Date(year, mon);
    let table =
   '<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</th><th>SAT</th><th>SUN</th></tr><tr>';
    for (let i = 0; i < getDay(d); i++) {
    table += '<td>*</td>';
    }
    while (d.getMonth() == mon) {
    table += '<td>' + d.getDate() + '</td>';
    if (getDay(d) % 7 == 6) {
    table += '</tr><tr>';
```

```
    }
    d.setDate(d.getDate() + 1);
    }
    if (getDay(d) != 0) {
    for (let i = getDay(d); i < 7; i++) {
    table += '<td>*</td>';
    }
    }
    table += '</tr></table>';
    document.getElementById("calendar").innerHTML = table;
}
createCalendar(calendar, year, month);
</script>
</body>
</html>
```

OUTPUT

CALENDAR

Enter The year : 2022

Enter The Month: 6

MON	TUE	WED	THU	FRI	SAT	SUN
*	*	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	*	*	*

EXPERIMENT NO :10

AIM

Compose Electricity bill from user input based on a given tariff using PHP.

PROGRAM CODE

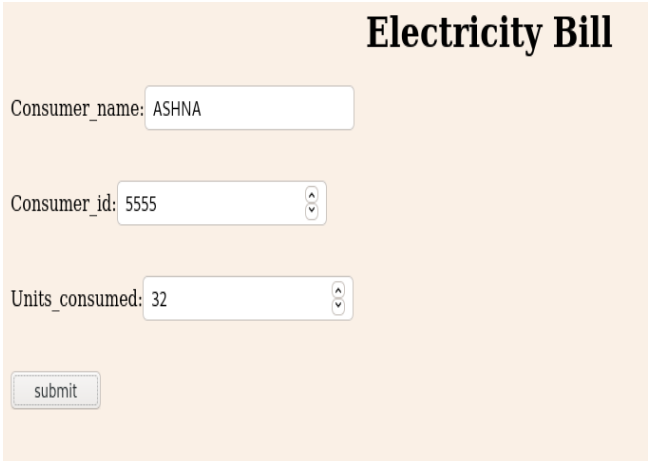
bill.html

```
<html>
<head>
<title>electricity</title>
</head>
<body bgcolor="linen">
<h1><center>Electricity Bill</center></h1>
<form align="center" action="submit.php" method="post">
Consumer_name:<input type="text" name="a"></input><br><br><br>
Consumer_id:<input type="number" name="c"></input><br><br><br>
Units_consumed:<input type="number"
name="u"></input><br><br><br>
<input type="submit" value="submit">
</form>
</body>
</html>
```

submit.php

```
<?php
$s=$_POST['u'];
$h=$_POST['a'];
$y=1.5;
$z=$s*$y;
echo "$h is wanted to pay amount $z";
?>
```

OUTPUT



ASHNA is wanted to pay amount 48

EXPERIMENT NO :11

AIM

Build a PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions

PROGRAM CODE

```
<?php

$student=array("Bindhu","Rahul","Anil","Elizaba","Amal","Rithik");

echo "Student's list";

echo "<br>";

print_r($student);

echo "<br>";

echo "Sorted student list";

echo "<br>";

asort($student);

print_r($student);

echo "<br>";

echo "Reverse of sorted student list";

echo "<br>";

arsort($student);

print_r($student);

?>
```

OUTPUT

Student's list
Array ([0] => Bindhu [1] => Rahul [2] => Anil [3] => Elizaba [4] => Amal [5] => Rithik)
Sorted student list
Array ([4] => Amal [2] => Anil [0] => Bindhu [3] => Elizaba [1] => Rahul [5] => Rithik)
Reverse of sorted student list
Array ([5] => Rithik [1] => Rahul [3] => Elizaba [0] => Bindhu [2] => Anil [4] => Amal)

EXPERIMENT NO :12

AIM

Build a PHP code to store name of Indian Cricket players in an array and display
the same in HTML table.

PROGRAM CODE

```
<html>

<body>

<?php

$Indcricketers= array("Virat Kohli", "M S Dhoni", "Rohit Sharma");
echo "Indian Cricketers: " .  $Indcricketers[0] . ", " . $Indcricketers[1] ." and" . $Indcricketers[2] . "."; echo
"<h3>INDIAN  CRICKETERS</h3><table border='1'>

<tr>

<th>NO</th>

<th>NAMES</th>

</tr>

<tr>

<td>1</td>

<td>Virat Kohli</td>

</tr>

<tr>

<td>2</td>

<td>M S Dhoni</td>

</tr>

<tr>

<td>3</td>

<td>Rohit Sharma</td>

</tr>";
```

```
?>
</body>
</html>
```

OUTPUT

Indian Cricketers: Virat Kohli, M S Dhoni andRohit Sharma.

INDIAN CRICKETERS

NO	NAMES
1	Virat Kohli
2	M S Dhoni
3	Rohit Sharma

EXPERIMENT NO :13

AIM

Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the
title specified by the user and to display the search results with proper headings.

PROGRAM CODE

BOOK_INFO.html

```
<html>
<head>
<title>book</title>
</head>
<body align="center"><u>BOOK INFORMATION SYSTEM</u><br>
<a href="ADD_BOOK.html">Add Book</a><br>
<a href="Search.html">Search Book</a><br>
</body>
</html>
```

ADD_BOOK.html

```
<html><head>
<title>add book</title></head>
<body>
<form name="frm1" action="add1.php" method="POST">
<center><b><u>Enter Book Details</u></b><br>
Access Number:<input type="text" name="num"><br>
```

```
Title:<input type="text" name="tit"><br>
Author:<input type="text" name="author"><br>
Edition:<input type="text" name="edi"><br>
Publisher:<input type="text" name="pub"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

addl.php

```
<?php
$num=$_POST['num'];
$tit=$_POST['tit'];
$author=$_POST['author'];
$edi=$_POST['edi'];
$pub=$_POST['pub'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected";
}
$sql="INSERT INTO addb13
VALUES($num,'$tit','$author','$edi','$pub')";
if($con->query($sql))
```

```
{
echo "<BR>";
echo 'New row added';
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

Search.html

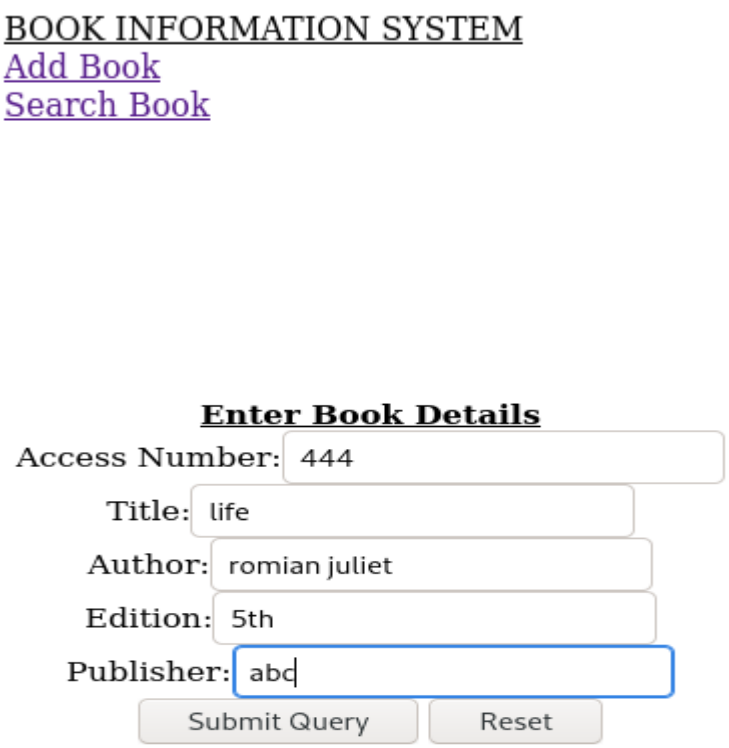
```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="search1.php"
method="POST">
<center>
<b><u>SEARCH A BOOK</u></b><br>
Enter book title:<input type="text" name="txt"><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

searchl.php

```
<?php
$title=$_POST['txt'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from addb13 where Title='$title'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{
echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".$row[4]."\n";
}
$result->close();
}else
{ echo "\nCould not found the book";
}
}
else
{
```

```
echo "\nError:could not connect";
}
$con->close();
?>
```

OUTPUT



connected
New row added

```
MariaDB [fisatdb]> select * from addb13;;
+---------------+-------+---------------+---------+-----------+
| Access_number | Title | Author        | Edition | Publisher |
+---------------+-------+---------------+---------+-----------+
|             7 | fff   | ggfgf         | 4ff     | fffsd     |
|            66 | hg    | hfg           | hhf     | gg        |
|           444 | life  | romian juliet | 5th     | abc       |
|           555 | web   | ben           | 7th     | abc       |
+---------------+-------+---------------+---------+-----------+
4 rows in set (0.000 sec)
```

SEARCH A BOOK

Enter book title: life

Submit Query

connected 444:life:romian juliet:5th:abc

EXPERIMENT NO:14

AIM

Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.

PROGRAM CODE

airline.html

```
<html>
<head>
<title>airline</title>
</head>
<body align="center"><u>AIRLINE INFORMATION SYSTEM</u><br>
<a href="add_airline.html">Flight Details</a><br>
<a href="air_search.html">Search Flight </a><br>
</body></html>
```

add_airline.html

```
<html><head>
<title>add book</title></head>
<body>
<form name="frm1" action="air_add1.php" method="POST">
<center><b><u>AIRLINE DETAILS Details</u></b><br>
Airline Number:<input type="text" name="num"><br>
```

```
Name:<input type="text" name="name"><br>
Date:<input type="date" name="date"><br>
Source:<input type="text" name="sour"><br>
Destination:<input type="text" name="dest"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body></html>
```

add_airline.php

```
<?php
$num=$_POST['num'];
$name=$_POST['name'];
$date=$_POST['date'];
$sour=$_POST['sour'];
$dest=$_POST['dest'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
```

```
echo "connected";
}
$sql="INSERT INTO airline
VALUES($num,'$name','$date','$sour','$dest')";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

air_search.html

```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="air_search1.php"
```

```
method="POST">
<center>
<b><u>SEARCH A FLIGHT</u></b><br>
Enter Source:<input type="text" name="txt"><br>
Enter Destination:<input type="text" name="txt1"><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

air_search1.php

```
<?php
$sour=$_POST['txt'];
$dest=$_POST['txt1'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
```

```
}
$sql="select * from airline where source='$sour' and destination='$dest'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{
echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".$row[4]."\n";
}
$result->close();
}else
{ echo "\nCould not found the flight";
}
}
else
{
echo "\nError:could not connect";
}
$con->close();
?>
```

OUTPUT

AIRLINE INFORMATION SYSTEM
Flight Details
Search Flight

AIRLINE DETAILs

Airline Number: 4444
Name: ashna sherin
Date: 22 / 03 / 2022
Source: kerala
Destination: switzerland
Submit Query Reset

connected
New row added

```
MariaDB [fisatdb]> select * from airline;
+------------+--------+------------+------------+-------------+
| airline_no | name   | date       | source     | destination |
+------------+--------+------------+------------+-------------+
|         88 | hgfgh  | 2022-03-07 | ghffhg     | ghfhgff     |
|        456 | ashna  | 2022-03-21 | dubai      | malaysia    |
|       5456 | anu    | 2023-02-07 | kozhikkode | Taminadu    |
|        454 | sherin | 2022-03-15 | thrissur   | ernamkulam  |
+------------+--------+------------+------------+-------------+
4 rows in set (0.000 sec)
```

SEARCH A FLIGHT

Enter Source: kerala

Enter Destination: switzerland

Submit Query

connected 4444:ashna sherin:2022-03-22:kerala:switzerland