

**FEDERAL INSTITUTE OF
SCIENCE AND TECHNOLOGY
(FISAT)TM**

HORMIS NAGAR, MOOKKANNOOR

ANGAMALY-683577



'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA133 - WEB PROGRAMMING LAB

Name: DEEPA P D

Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 **Batch:** A

Roll No: 50(FIT21MCA-2050)

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FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
(FISAT)TM

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‘FOCUS ON EXCELLENCE’

CERTIFICATE

This is to certify that this is the Bonafide record of the Practical work done by Ms. **DEEPA P D** in the **20MCA133- WEB PROGRAMMING** 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

Signature of H.O.D

Name:

Name:

Date:

Date of University practical examination

Signature of

Signature of

Internal Examiner

External Examiner

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Experiment Number:1

Aim:

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

Program code:

```
<html><head>

<title>MY NATIVE PLACE</title>

</head><body >

<h1 align="centre"><center><u>MY NATIVE PLACE</u></center></h1><font
color="#0000ff">

<h2>The name of my village is Nandikkara.Itis in Thrissur district.About 5000
people lives in my village.They are very simle and honest.They live in peace.They
help one another.Ther are 2 high schools and an ayurvedic dispencery in my
village.Boys and girls from other villages come to recieve education.There is also
a bank and a market place.People buy their necesseries from the market.The
natural scenery of my village is very fine.My village is an ideal
village.</h2></font><center></center></body>

</html>
```

output:



Your biodata by using the html tags for hyperlinks,images,table,frame and fonts.Make it attractive by using the various colour elements.The design should contain a minimum of 2 hyperlinks.

Program code:

biodata.html

[illegible]

edu.html

```
<html><head>
<title>EDUCATIONAL QUALIFICATIONS</title>
</head><body>
<h1 align="center">EDUCATIONAL QUALIFICATIONS</h1>
<table border="1px" cellspacing="1px" cellpadding="6px">
<tr><td>Name of the course</td>
<td>Name of the institute</td>
<td>Total percentage obtained(%)</td></tr>
<tr><td>SSLC</td>
<td>G V H S S Nandikkara</td>
<td>96%</td></tr>
<tr><td>PLUS TWO</td>
<td>G H S S Nandikkara</td>
<td>92%</td></tr>
<tr><td>Bsc Physics</td>
<td>S H Chalakkudy</td>
<td>82.7%</td></tr></body>
</html>
```

hobbies.html

```
<html>
<head>
<title>HOBBIES</title>
</head><body>
<h2>Hobbies:<div>
<li>Reading books</li>
<li>Watching T V</li>
<li>Dancing</li>
</div>
</body>
</html>
```


native.html

```
<html>
<head>
<title>MY NATIVE PLACE</title>
</head><body >
<h1 align="centre"><center><u>MY NATIVE PLACE</u></center></h1><font
color="#0000ff">
<h2>The name of my village is Nandikkara.Itis in Thrissur district.About 5000
people lives in my village.They are very simle and honest.They live in peace.They
help one another.Ther are 2 high schools and an ayurvedic dispencery in my
village.Boys and girls from other villages come to recieve education.There is also
a bank and a market place.People buy their necesseries from the market.The
natural scenery of my village is very fine.My village is an ideal
village.</h2></font><center></center></body>
</html>
```

output:

The screenshot shows a web browser window with multiple tabs. The active tab is titled 'BIODATA' and displays a form with the following fields:

- Name:** Deepa p d
- Date of birth:** 22/09/2000
- Father's Name:** P S Divakaran
- Mother's Name:** Sakunthala
- Address:** puthuppura(H), P O Nandikkara, PIN: 680301

Below the address field, there are three links:

- [click here to see my hobbies](#)
- [click here to see my educational qualifications](#)
- [click here to see my native place](#)

On the right side of the form, there is a profile picture of a woman with blonde hair, resembling Elsa from Disney's Frozen.

The screenshot shows a web browser window with multiple tabs. The active tab is titled 'HOBBIES' and displays a form with the following content:

Hobbies:

- Reading books
- Watching T V
- Dancing

BIODATA EDUCATIONAL QUALIFICATIONS EDUCATIONAL QUALIFICATIONS

File | C:/Users/deepa/Downloads/deepapd/edu.html

Apps Gmail YouTube Maps Classes M.Sc - B.Ed. (Physic... 13 Best Career Opti... i have msc in medic... M.Sc. Geophysics C... M.Sc. Geophysics C... Master of Science [...]

EDUCATIONAL QUALIFICATIONS

Name of the course	Name of the institute	Total percentage obtained(%)
SSLC	G V H S S Nandikkara	96%
PLUS TWO	G H S S Nandikkara	92%
Bsc Physics	S H Chalakkudy	82.7%

elsa.jpeg Show all

Type here to search

22:44 01-11-2021

Program 1 MY NATIVE PLACE

File | C:/Users/deepa/Downloads/deepapd/native.html

Apps Gmail YouTube Maps Classes M.Sc - B.Ed. (Physic... 13 Best Career Opti... i have msc in medic... M.Sc. Geophysics C... M.Sc. Geophysics C... Master of Science [...]

MY NATIVE PLACE

The name of my village is Nandikkara.Itis in Thrissur district.About 5000 people lives in my village.They are very simle and honest.They live in peace.They help one another:There are 2 high schools and an ayurvedic dispensery in my village.Boys and girls from other villages come to recieve education.There is also a bank and a market place.People buy their necesseries from the market.The natural scenery of my village is very fine.My village is an ideal village.



Type here to search

22:14 01-11-2021

Experiment Number:3

Aim:

Create an application form for MCA course in FISAT.

Program code:

```
<html>

<head><style type="text/css"> label
{
width:150px; display:inline-block;
}
.mdiv
{
border:10px outset cyan;
text-align:center;
}
</style><title>FISAT</title>

<h1>Application form for admission to MCA</h1>

</head><body>

<div class="mdiv">

<h2><center>FEDERAL      INSTITUTE      OF      SCIENCE      AND
TECHNOLOGY</center></h2> </div>

<form>

<label>NAME:</label><input name="name" type="text" size="30"><br><br>

<label>ADDRESS:</label><input          name="name"          type="textarea"
size="40"><br><br>

<label>CITY:</label><input name="name" type="text" size="30"><br><br>

<label>STATE:</label><input name="name" type="text" size="30"><br><br>
<label>COUNTRY:</label><input name="name" type="text" size="30"><br><br>
<label>PINCODE:</label><input name="name" type="text" size="30"><br><br>
<label>MOBILE:</label><input name="name" type="text" size="30"><br><br>
<label>EMAIL:</label><input name="name" type="text" size="30"><br><br>
<label>
```


Output:

Activities Firefox ESR Dec 8 13:46

mcaform.html - Files - X (no subject) - deepadiv X FRAMES X FRAMES X FISAT X FISAT X + X

file:///home/stud/deepa/mcaform.html

Application form for admission to MCA

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

NAME:

ADDRESS:

CITY:

STATE:

COUNTRY:

PINCODE:

MOBILE:

EMAIL:

DATE OF BIRTH:

GENDER: Male ☐ Female ☐

Activities Firefox ESR Dec 8 13:46

mcaform.html - Files - X (no subject) - deepadiv X FRAMES X FRAMES X FISAT X FISAT X + X

file:///home/stud/deepa/mcaform.html

GENDER: Male ☐ Female ☐

NATIONALITY:

RELIGION: choose a religion: --select an option-- COMMUNITY:

CATEGORY: choose a category: --select an option--

FATHERS
DETAILS:

NAME:

EMPLOYED ☐

DESIGNATION

PHONE NO

ANNUAL INCOME

MOTHERS
DETAILS:

Activities Firefox ESR Dec 8 13:47

mcaform.html - Files x (no subject) - deepadiv x FRAMES x FRAMES x FISAT x FISAT x

file:///home/stud/deepa/mcaform.html

NAME:

EMPLOYED ☐

DESIGNATION

PHONE NO

ANNUAL INCOME

ACADEMIC QUALIFICATIONS

Entrance Rank

Tenth %

Plus Two %

Activities Firefox ESR Dec 8 13:47

mcaform.html - Files x (no subject) - deepadiv x FRAMES x FRAMES x FISAT x FISAT x

file:///home/stud/deepa/mcaform.html

Entrance Rank

Tenth %

Plus Two %

Graduation Course BSc ☐ BCA ☐ BCom ☐ Others ☐

Degree Percentage

Semester upto result available

Remarks

Experiment Number:4

Aim:

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

Program code:

frame.html

```
<html>
<head><title>FRAMES</title>
</head>
<frameset cols="70%, 30%"><frame name="lowerF" src="gagan.html">
<frameset rows="40%,60%">
<frame name="navF" src="isro.html">
<frame name="upperF" src="plannedmissions.html">
</frameset></frameset>
<noframes>
<body>
Something here for browsers not supporting frames
</body>
</noframes>
</html>
```

isro.html

```
<html>
<head>
</head>
<body>

<h2>ISRO PLANNED MISSIONS</h2></body>
</html>
```


plannedmissions.html

```
<html>
<head>
<title>GAGANYAAN1</title>
</head><body>
<br><a href = "gagan.html" target="lowerF">Gaganyaan 1</a></br>
<br><label><a href="Adithya.html"target="lowerF">Aditya-L1</a></label></br>
</body></html>
```

gagan.html

```
<html>
<head>
<title>Gaganyaan 1</title>
</head>
<body>
<h1 align="center">GAGANYAAN 1</h1>
<h2><p>Gaganyaan (Sanskrit IAST: gagan-yāna; transl. "Sky Craft") is an Indian
crewed orbital spacecraft intended to be the formative spacecraft of the Indian Human
Spaceflight Programme. The spacecraft is being designed to carry three people, and a
planned upgraded version will be equipped with rendezvous and docking capability.
In its maiden crewed mission, Indian Space Research Organisation (ISRO)'s largely
autonomous 5.3 t (12,000 lb) capsule will orbit the Earth at 400 km (250 mi) altitude
for up to seven days with a two or three-person crew on board. The first crewed
mission was originally planned to be launched on ISRO's GSLV Mk III in December
2021,[8][9] but this has since been delayed to no earlier than
2023.[7]</P></h2></font><center></center>
</body>
</html>
```

Adithya.html


```
<html>
<head>
<title>Aditya - L1 First Indian mission to study the Sun</title>
</head>
<body>
<h1 align="center">Aditya - L1 First Indian mission to study the Sun</h1>
<h2><p>The Aditya-1 mission was conceived as a 400kg class satellite carrying one
payload, the Visible Emission Line Coronagraph (VELC) and was planned to launch
in a 800 km low earth orbit. A Satellite placed in the halo orbit around the
Lagrangian point 1 (L1) of the Sun-Earth system has the major advantage of
continuously viewing the Sun without any occultation/ eclipses. Therefore, the
Aditya-1 mission has now been revised to “Aditya-L1 mission” and will be inserted in
a halo orbit around the L1, which is 1.5 million km from the Earth. The satellite
carries additional six payloads with enhanced science scope and
objectives.</P></h2></font><center></center>
</body>
</html>
```

Output:

ISRO PLANNED MISSIONS

GAGANYAAN 1

Gaganyaan (Sanskrit IAST: gagan-yāna; transl. "Sky Craft") is an Indian crewed orbital spacecraft intended to be the formative spacecraft of the Indian Human Spaceflight Programme. The spacecraft is being designed to carry three people, and a planned upgraded version will be equipped with rendezvous and docking capability. In its maiden crewed mission, Indian Space Research Organisation (ISRO)'s largely autonomous 5.3 t (12,000 lb) capsule will orbit the Earth at 400 km (250 mi) altitude for up to seven days with a two or three-person crew on board. The first crewed mission was originally planned to be launched on ISRO's GSLV Mk III in December 2021,[8][9] but this has since been delayed to no earlier than 2023.[7]




[Gaganyaan 1](#)
[Aditya-1](#)

ISRO PLANNED MISSIONS

Aditya - L1 First Indian mission to study the Sun

The Aditya-1 mission was conceived as a 400kg class satellite carrying one payload, the Visible Emission Line Coronagraph (VELC) and was planned to launch in a 800 km low earth orbit. A Satellite placed in the halo orbit around the Lagrangian point 1 (L1) of the Sun-Earth system has the major advantage of continuously viewing the Sun without any occultation/ eclipses. Therefore, the Aditya-1 mission has now been revised to "Aditya-L1 mission" and will be inserted in a halo orbit around the L1, which is 1.5 million km from the Earth. The satellite carries additional six payloads with enhanced science scope and objectives.



[Gaganyaan 1](#)
[Aditya-1](#)

Experiment Number:5

Aim:

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

Program Code:

css.html

```
<html>
<head>
<title>css</title>
<style>
p{
font-family:sans-serif;color:maroon;
}
body{ background-color:yellow;
}
</style>
</head>
<body>
<h1 style="color:blue;">Webpage</h1>
<p>A webpage is a document commonly written in HyperText Markup
Language(HTML) that is accessible through the internet or other network using a
browser.</p>
<link rel="stylesheet" href="external.css">
<h2>Types of Webpage</h2>
<h4>Static Webpage<br>Dynamic Webpage</h4>
<body>
<html>
```

external.css

```
h2{ color:green;font-size:20px;}
h4{ font-size:15px;color:black;}
```

output:

Webpage

A webpage is a document commonly written in HyperText Markup Language(HTML) that is accessible through the internet or other network using a browser.

Types of Webpage

Static Webpage
Dynamic Webpage

Experiment Number:6

Aim:

Create an HTML registration form and to validate the form using javascript.

Program Code:

```
<html>
<head><style type="text/css"> label
{
width:150px; display:inline-block;
}
.mdiv
{
border:10px outset cyan;
text-align:center;
}
</style>
<script>
function validateForm()
```

```
{
var x = document.forms["myForm"]["name"].value; if (x == "") {
alert("Name must be filled out"); return false;
}
var y = document.forms["myForm"]["ad"].value; if (y == "") {
alert("Address must be filled out"); return false;
}
var z = document.forms["myForm"]["city"].value; if (z== "") {
alert("city name must be filled out"); return false;
}
var v = document.forms["myForm"]["pin"].value; if (v== "") {

alert("pin code must be filled out"); return false;
}
}</script>
<title>FISAT</title>
<h1>Application form for admission to MCA</h1>
</head><body>
<div class="mdiv">
<h2><center>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY</center></h2> </div>
<form>
<label>NAME:</label><input name="name" type="text" size="30"><br><br>
<label>ADDRESS:</label><input name="name" type="text" size="40"><br><br>
<label>CITY:</label><input name="name" type="text" size="30"><br><br>
<label>STATE:</label><input name="name" type="text" size="30"><br><br>
<label>COUNTRY:</label><input name="name" type="text" size="30"><br><br>
<label>PINCODE:</label><input name="name" type="text" size="30"><br><br>
<label>MOBILE:</label><input name="name" type="text" size="30"><br><br>
<label>EMAIL:</label><input name="name" type="text" size="30"><br><br>
```


<label>MOTHERS DETAILS:</label>

[illegible]

<p>EMPLOYED

☐

<p>DESIGNATION

<p>PHONE NO &

<p>ANNUAL INCOME

<p><input type=submit value=Submit>

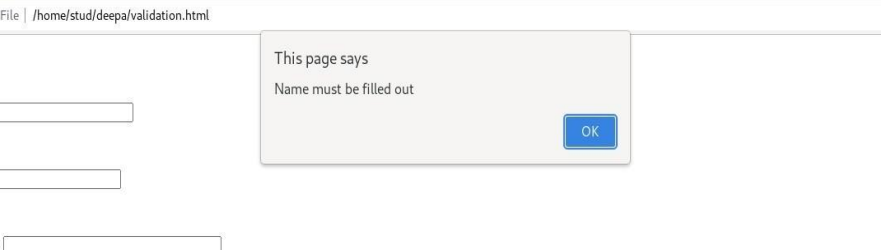
<input type=reset value=Reset></p>

</form>

</body>

</html>

Output:



The screenshot shows a Google Chrome browser window with the address bar displaying the file path `/home/stud/deepa/validation.html`. The page content includes a form with the following elements:

- A checkbox labeled "EMPLOYED".
- A text input field for "DESIGNATION".
- A text input field for "PHONE NO".
- A text input field for "ANNUAL INCOME".
- A section titled "MOTHERS DETAILS:" containing a text input field for "NAME:".
- Another checkbox labeled "EMPLOYED".
- Another text input field for "DESIGNATION".
- Another text input field for "PHONE NO".
- Another text input field for "ANNUAL INCOME".
- At the bottom, there are "Submit" and "Reset" buttons.

A validation error message box is displayed in the center of the page, stating: "This page says Name must be filled out". The message box has a blue "OK" button.

Activities Google Chrome Dec 13 16:04

FISAT x +

File /home/stud/deepa/validation.html

EMPLOYED ☐

DESIGNATION

PHONE NO

ANNUAL INCOME

MOTHERS DETAILS:

NAME:

EMPLOYED ☐

DESIGNATION

PHONE NO

ANNUAL INCOME

Submit Reset

This page says
Address must be filled out

OK

Activities Google Chrome Dec 13 16:04

FISAT x +

File /home/stud/deepa/validation.html

EMPLOYED ☐

DESIGNATION

PHONE NO

ANNUAL INCOME

MOTHERS DETAILS:

NAME:

EMPLOYED ☐

DESIGNATION

PHONE NO

ANNUAL INCOME

Submit Reset

This page says
pin code must be filled out

OK

Experiment Number:7

Aim:

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

Program Code:

```
<html>

<body>

<h2>JavaScript String Length</h2>

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

<p id="demo"></p>

<script>

var txt = "welcome"; var len = txt.length;

document.getElementById("demo").innerHTML = len;

</script>

<h2>JavaScript String Slicing</h2>

<p id="demo1"></p>

<script>

let str = "kichu,midili,vasudev"; document.getElementById("demo1").innerHTML =
str.slice(6,12);

</script>

<h2>JavaScript SubString </h2>

<p id="demo2"></p>

<script>

let p = "India, China, Germany"; document.getElementById("demo2").innerHTML =
p.substring(0,5);

</script>

<h2>JavaScript substr </h2>

<p>The substr() method extract a part of a string and returns the extracted parts in a
new string:</p>

<p id="demo3"></p>
```

```
<script>
let a = "Apple, Banana, Kiwi"; document.getElementById("demo3").innerHTML =
a.substr(0,5);
</script>
<h2>JavaScript Replace</h2>
<button onclick="myFunction()">Try it</button>
<p id="demo4">java script string methods</p>
<script>
function myFunction() {
let text = document.getElementById("demo4").innerHTML;
document.getElementById("demo4").innerHTML =
text.replace("methods", "functions");
}
</script>
<h2>JavaScript String Uppercase</h2>
<p>Convert string to upper case:</p>
<button onclick="myFunction2()">Try it</button>
<p id="demo6">spacestation</p>
<script>
function myFunction2() {
let b= document.getElementById("demo6").innerHTML;
document.getElementById("demo6").innerHTML = b.toUpperCase();
}
</script>
<h2>JavaScript String lowercase</h2>
<p>Convert string to lower case:</p>
<button onclick="myFunction1()">Try it</button>
<p id="demo5"> SPACESTATION</p>
<script>
function myFunction1() {
let t = document.getElementById("demo5").innerHTML;
document.getElementById("demo5").innerHTML = t.toLowerCase();
```

```
}  
</script>  
<h2>JavaScript String concat</h2>  
<p>The concat() method joins two or more strings:</p>  
<p id="demo7"></p>  
<script>  
let text1 = "My";  
let text2 = "World!";  
let text3 = text1.concat(" ",text2); document.getElementById("demo7").innerHTML =  
text3;  
</script>  
<h1>JavaScript Strings trim</h1>  
<h2>The trim() Method</h2>  
<p id="demo8"></p>  
<script>  
let t1 = "      My World!      "; let t2 = t1.trim();  
document.getElementById("demo8").innerHTML = "Length t1=" + t1.length +  
"<br>Length t2=" + t2.length;  
</script>  
<h2>JavaScript String charAt</h2>  
<p>The charAt() method returns the character at a given position in a string:</p>  
<p id="demo9"></p>  
<script>  
var c = "My WORLD"; document.getElementById("demo9").innerHTML =  
c.charAt(0);  
</script>  
<h2>JavaScript String Methods</h2>  
<p>Display the first array element, after a string split:</p>  
<p id="demo10"></p>  
<script>  
let d = "a,b,c,d,e,f";
```

```
const myArray = d.split(","); document.getElementById("demo10").innerHTML = myArray[0];
```

```
</script>
```

```
<h2>JavaScript String indexOf</h2>
```

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

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

```
<script>
```

```
let e = " locate where 'locate' occurs!";  
document.getElementById("demo11").innerHTML = e.indexOf("locate");
```

```
</script>
```

```
<h2>JavaScript String Methods</h2>
```

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

```
<p id="demo12"></p>
```

```
<script>
```

```
let f = " locate where 'locate' occurs!";  
document.getElementById("demo12").innerHTML = f.search("locate");
```

```
</script>
```

```
<h2>JavaScript String Search</h2>
```

```
<p>Check if a string includes "universe":</p>
```

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

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

```
<script>
```

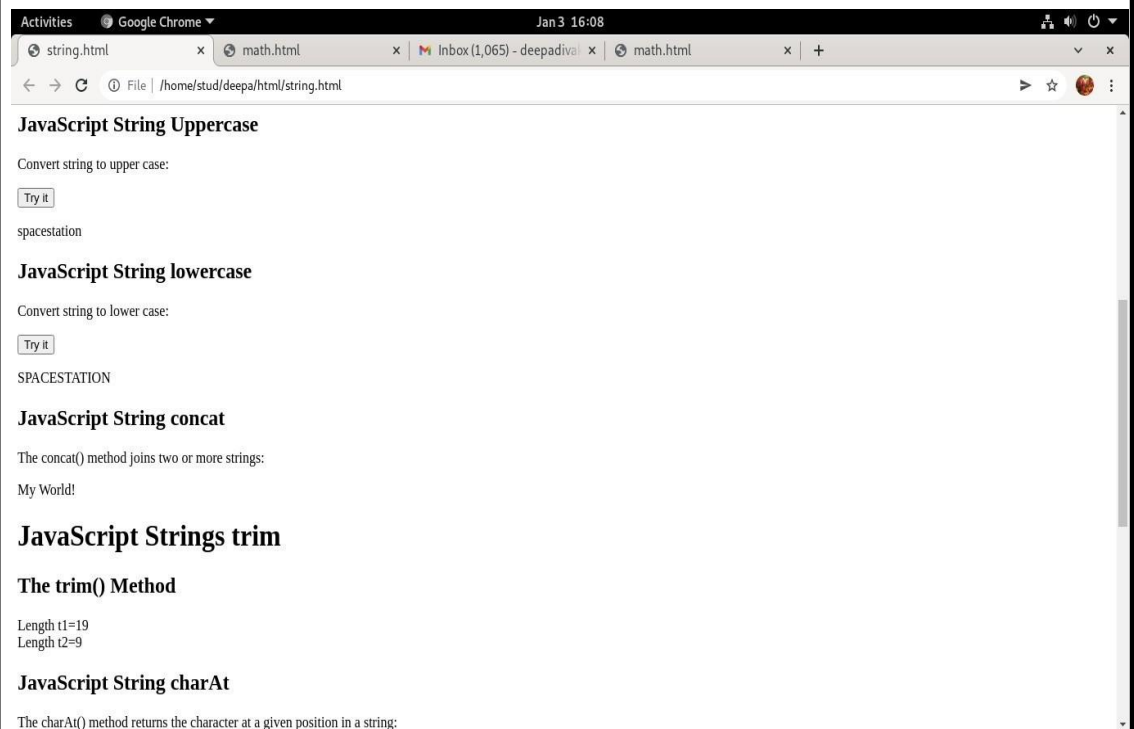
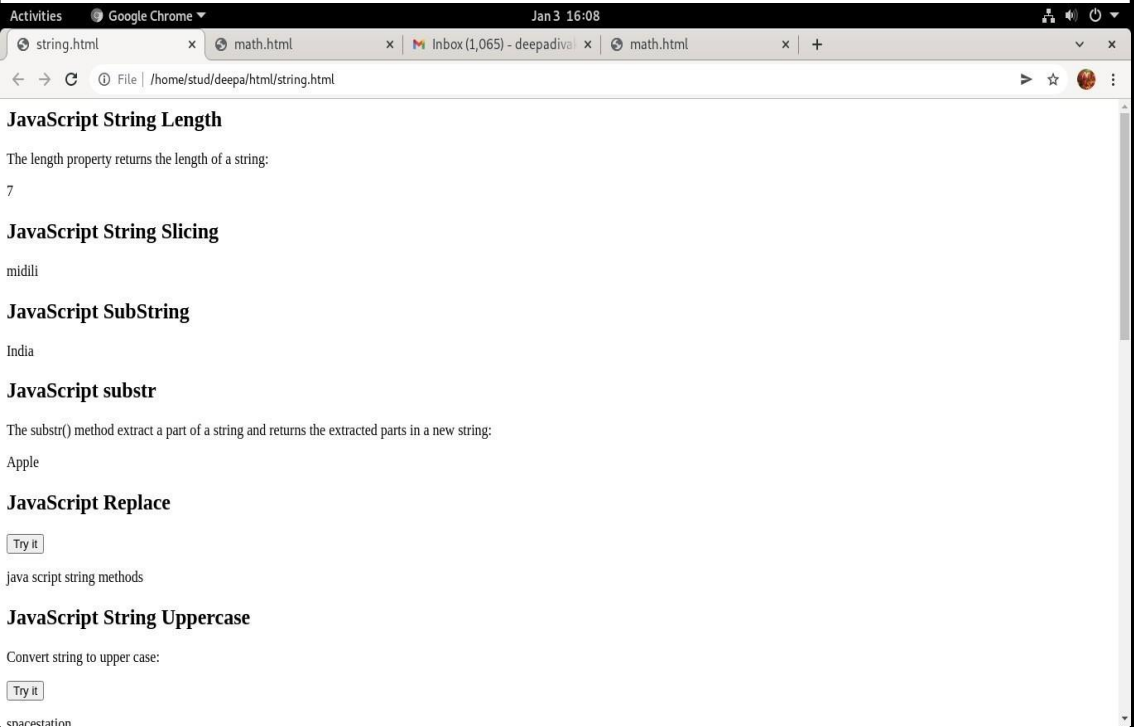
```
let g = " welcome to the universe.";  
document.getElementById("demo13").innerHTML = g.includes("universe");
```

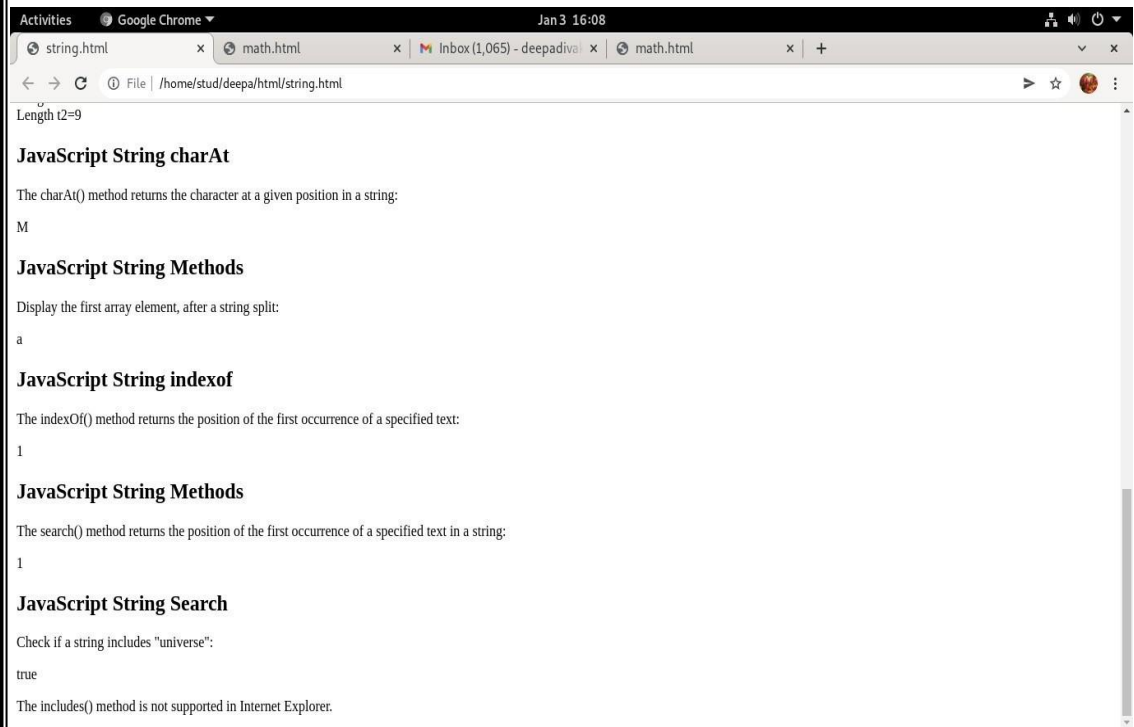
```
</script>
```

```
</body>
```

```
</html>
```

output:





MATH.HTML

```
<html>
```

```
<body>
```

```
<h2>JavaScript Math</h2>
```

```
<p>Math.round() rounds a number to the nearest integer:</p>
```

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

```
<script>
```

```
document.getElementById("demo").innerHTML = Math.round(7.5);
```

```
</script>
```

```
<h2>JavaScript Math.ceil()</h2>
```

```
<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:</p>
```

```
<p id="demo1"></p>
```

```
<script>
```

```
document.getElementById("demo1").innerHTML = Math.ceil(3.4);
```

```
</script>
```

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

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

<p id="demo2"></p>

<script>

document.getElementById("demo2").innerHTML = Math.floor(2.7);

</script>

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

<p>Math.trunc(x) returns the integer part of x:</p>

<p id="demo3"></p>

<script>

document.getElementById("demo3").innerHTML = Math.trunc(6.7);

</script>

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

<p>Math.sign(x) returns if x is negative, null or positive:</p>

<p id="demo4"></p>

<script>

document.getElementById("demo4").innerHTML = Math.sign(4);

</script>

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

<p>Math.pow(x,y) returns the value of x to the power of y:</p>

<p id="demo5"></p>

<script>

document.getElementById("demo5").innerHTML = Math.pow(4,2);

</script>

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

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

<p id="demo6"></p>

<script>

document.getElementById("demo6").innerHTML = Math.sqrt(16);

</script>

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

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

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

<script>

document.getElementById("demo7").innerHTML = Math.abs(-4.2);

</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="demo8"></p>

<script> document.getElementById("demo8").innerHTML =

"The sine value of 45 degrees is " + Math.sin(45 * 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="demo9"></p>

<script> document.getElementById("demo9").innerHTML =

"The cosine value of 45 degrees is " + Math.cos(45 * Math.PI / 180);

</script>

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

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

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

<script> document.getElementById("demo10").innerHTML = Math.min(0, 250, 30, 20, -8, -220);</script>

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

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

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

<script> document.getElementById("demo11").innerHTML = Math.max(0, 250, 30, 20, -8, -200);

</script>

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

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

<p id="demo12"></p>

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

document.getElementById("demo12").innerHTML = Math.random();

</script>

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

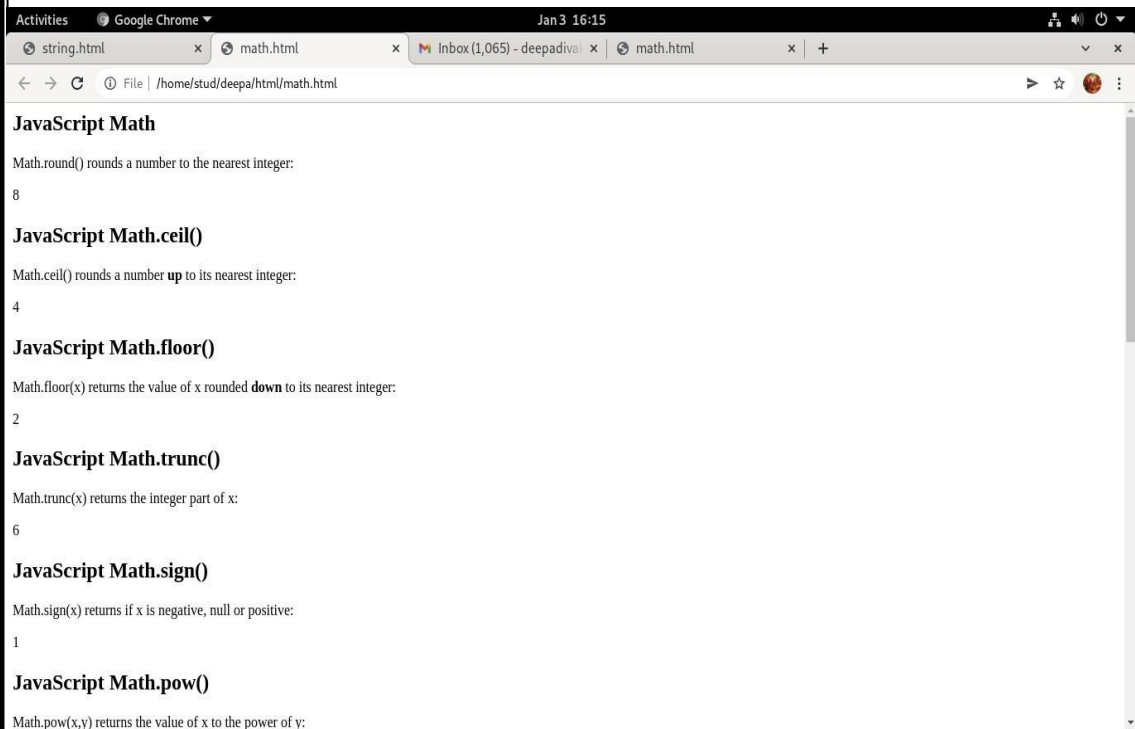
<p>Math.log() returns the natural logarithm of a number:</p>

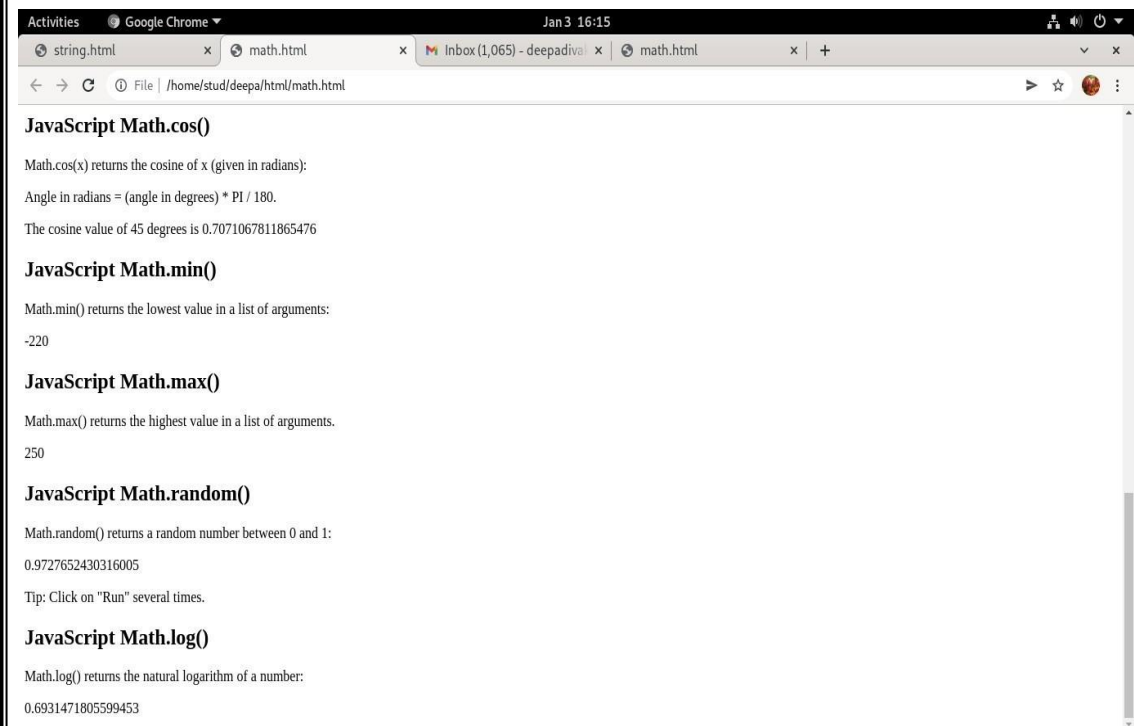
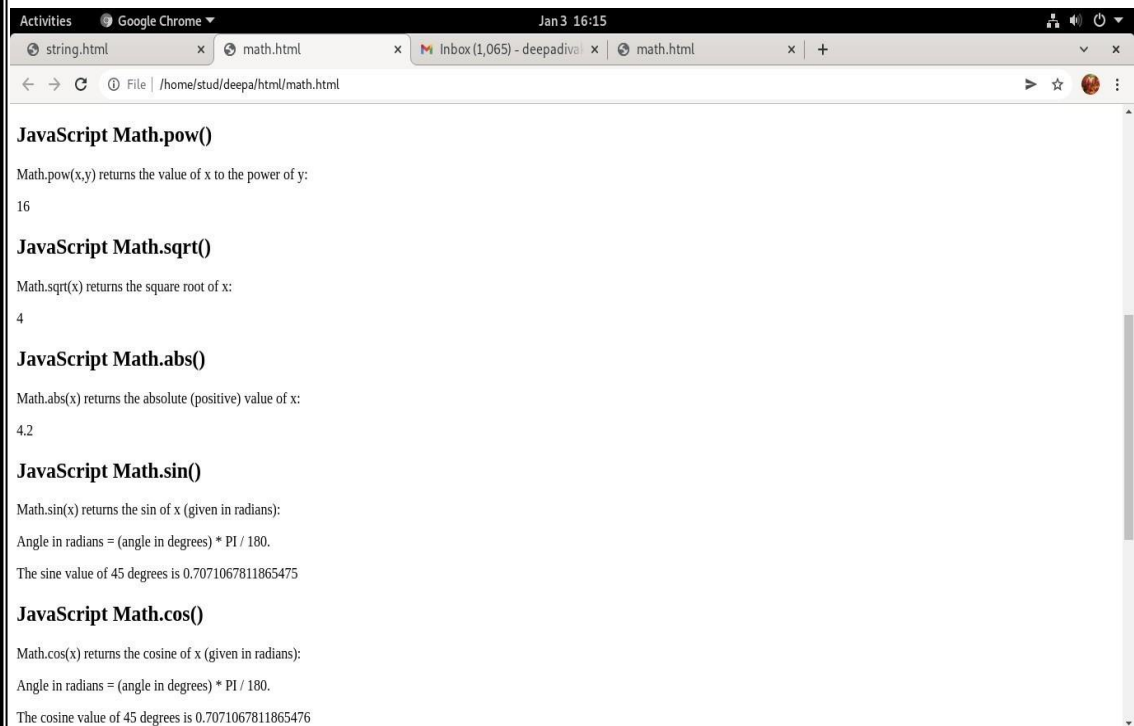
<p id="demo13"></p><script>

document.getElementById("demo13").innerHTML = Math.log(2);

</script></body></html>

output:





Experiment Number:8

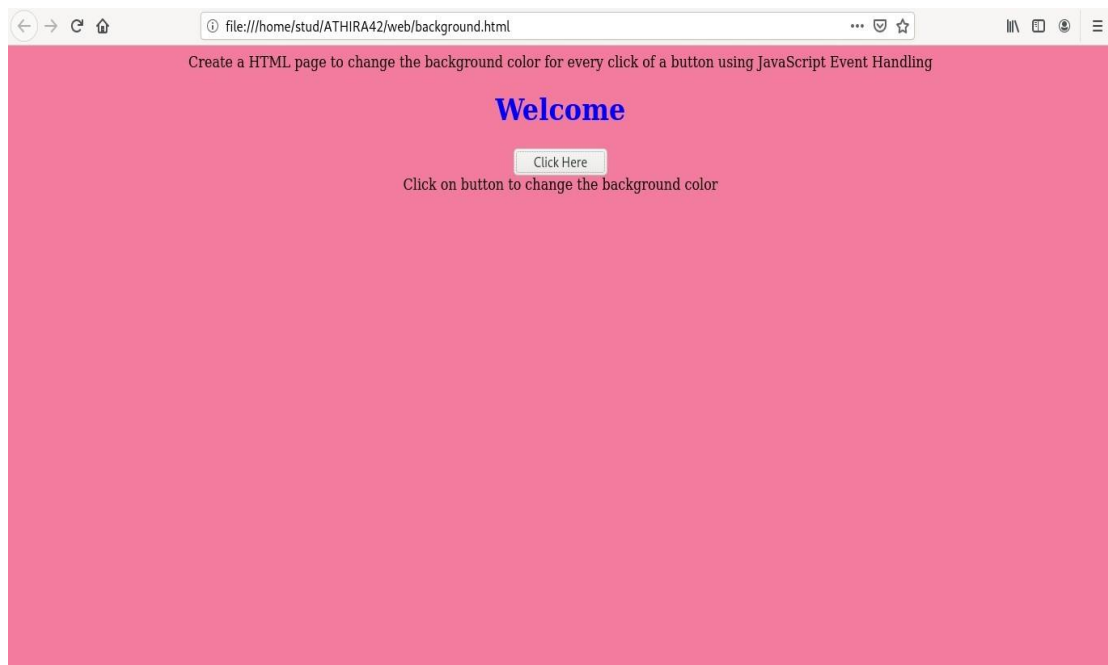
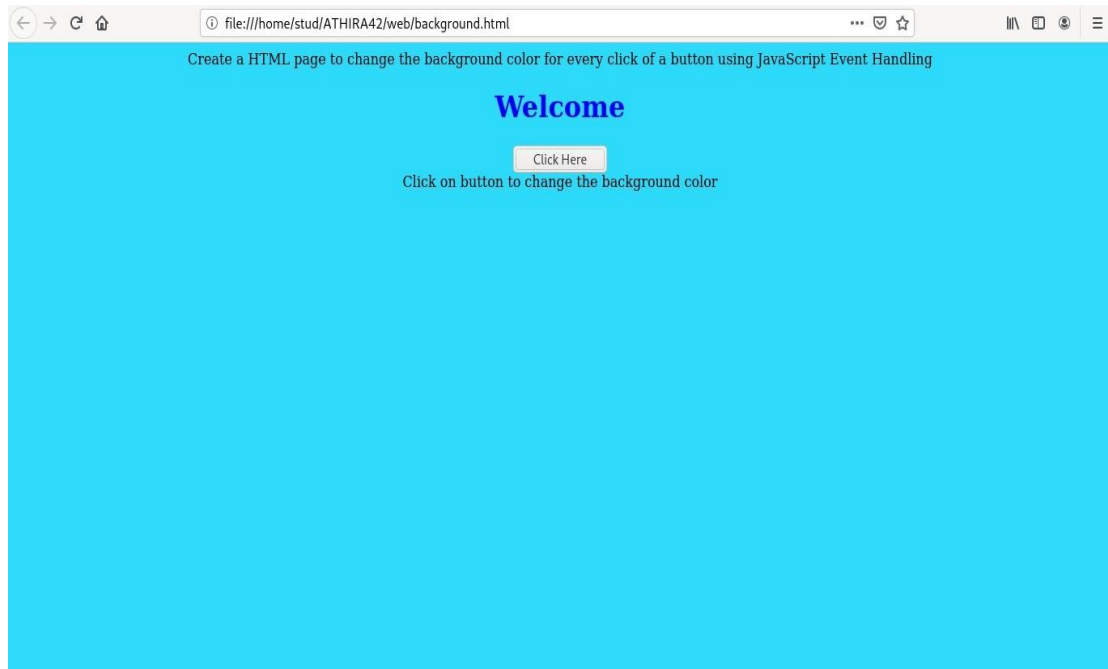
Aim:

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

Program code:

```
<!DOCTYPE HTML>
<html><head>
<title>
changing the background color
</title></head>
<body style = "text-align:center;">
<h1 style = "color:blue;" >
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()*0xFFFFFFFF<<0).toString(16);
pageBody.style.background = color;
}
</script>
</body>
</html>
```

output:



Experiment Number:9

Aim:

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

Program Code:

```
<!DOCTYPE HTML>
<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: #E6E6E6;
}
</style>
</head>
<body>
<b><u>CALENDAR</u></b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" />
<br>
```

```

<div id="calendar"></div>

<script>

var year = document.getElementById("cal").value;
var month = document.getElementById("month").value;

function getDay(date) {
let day = date.getDay();
if (day == 0) day = 7;
return day - 1;
}

function createCalendar(elem, 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</t
h><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>';
elem.innerHTML = table;
}
createCalendar(calendar, year, month);
</script>
</body>
</html>

```

Output:

CALENDAR

Enter The year : 2022

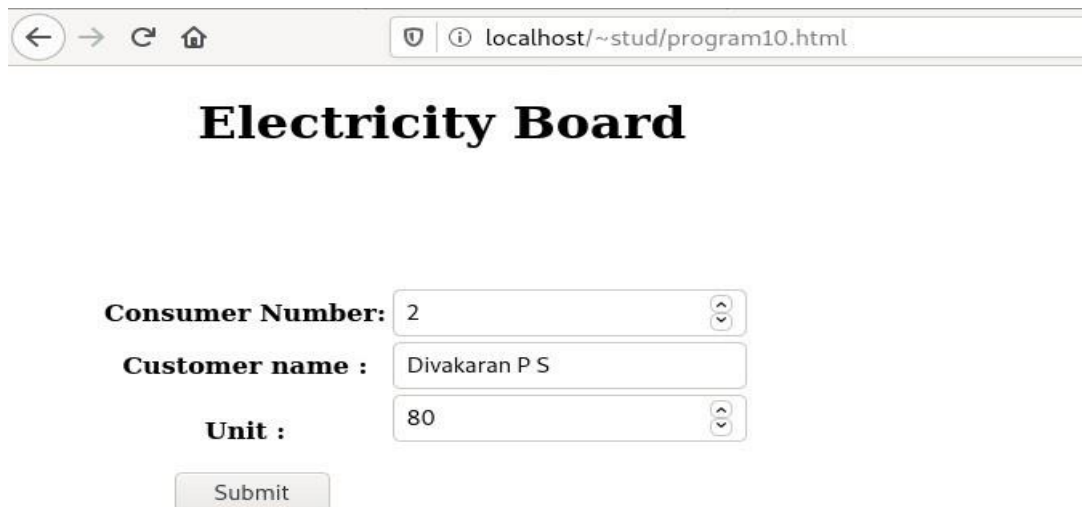
Enter The Month: 9

Click me

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	*	*

Program10.1.php

```
<html>
<head><title>Bill</title></head>
<body>
<h1>Electricity Bill</h1>
<br><br>
<h3>Name :<?php echo $_POST["uname"];?></h3><br>
<h3>Consumer number :<?php echo $_POST["cno"];?></h3><br>
<h3>Price/Unit :<?php $p=4; echo $p;?></h3><br>
<h3>Unit :<?php echo $_POST["unit"];?></h3><br>
<h3>Amount :<?php echo $_POST["unit"]*4;?></h3><br>
</body>
</html>
```

Output:

Electricity Board

Consumer Number:

Customer name :

Unit :



Electricity Bill

Name :Divakaran P S

Consumer number :100132182

Price/Unit :4

Unit :80

Amount :320

Experiment Number: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:

```
<!DOCTYPE html>
<html><body>
<?php
$students=array("aiswarya","amar","akshaya");
print_r($students);
?><?php
$students=array("aiswarya","amar","akshaya");
$length = count($students); echo "<br>";
echo "sorting using sort"; echo "<br>";
asort($students); print_r($students);?><?php
$students=array("aiswarya","amar","akshaya");
echo "<br>";
echo "sorting using sort"; echo "<br>"; arsort($students); print_r($students);
?></body></html>
```

Output:

```

Array ( [0] => aiswarya [1] => amar [2] => akshaya )
sorting using sort
Array ( [0] => aiswarya [2] => akshaya [1] => amar )
sorting using sort
Array ( [1] => amar [2] => akshaya [0] => aiswarya )

```

Experiment Number: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:

```

<!DOCTYPE html>

<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 and Rohit Sharma.

INDIAN CRICKETERS

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

Experiment Number: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:

BOOKINFO.HTML

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

```
{
echo "connected\n";
}
$sql="select * from LIBSYSTEM where
Title='$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();
?>
```

addl.html

```
<html><head>
<title>add book</title></head>
<body>
<form name="frm1" action="addl.php" method="POST">
<center><b><u>Enter Book Details</u></b><br>
```

Access Number:<input type="number" name="num">

Title:<input type="text" name="tit">

Author:<input type="text" name="author">

Edition:<input type="text" name="edi">

Publisher:<input type="text" name="pub">

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

<input type="reset" name="Reset">

</form>

</body>

</html>

search1.html

<html>

<head>

<title>search</title>

</head>

<body>

<form name="frm2" action="search1.php"

method="POST">

<center>

<u>SEARCH A BOOK</u>

Enter book title:<input type="text" name="txt">

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

</center>

</form>

</body>

</html>

addl.php

```
<?php
$num=$_POST['num'];
$tit=$_POST['tit'];
$author=$_POST['author'];
$sedi=$_POST['edi'];
$pub=$_POST['pub'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{ echo "Failed to connect"; }
else
{ echo "connected"; }
$sql="INSERT INTO LIBSYSTEM
VALUES($num,$tit,$author,$sedi,$pub)";
if($con->query($sql))
{
echo "<BR>";
echo "New row added";
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```


search1.php

```
<?php
$title=$_POST['txt'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}else{
echo "connected\n";}
$sql="select * from LIBSYSTEM where
Title='$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:

localhost/~stud/bookinfo.html

BOOK INFORMATION SYSTEM

[Add Book](#)

[Search Book](#)

localhost/~stud/add_book.html

Enter Book Details

Access Number:

Title:

Author:

Edition:

Publisher:

localhost/~stud/addl.php

connected

New row added

localhost/~stud/search.html

SEARCH A BOOK

Enter book title:

localhost/~stud/searchl.php

connected\n1312:The study in scarlet:Sherlok holmes:2:Times

```

MariaDB [fisatdb]> select * from addb13;
+-----+-----+-----+-----+-----+
| Accession | title           | authors       | edition | publisher |
+-----+-----+-----+-----+-----+
| 123       | wp              | ghj           | 2       | ak        |
| 1312      | The study in scarlet | Sherlock holmes | 2       | Times     |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [fisatdb]> select * from addb13 where Accession="1312";
+-----+-----+-----+-----+-----+
| Accession | title           | authors       | edition | publisher |
+-----+-----+-----+-----+-----+
| 1312      | The study in scarlet | Sherlock holmes | 2       | Times     |
+-----+-----+-----+-----+-----+
1 row in set (0.023 sec)

MariaDB [fisatdb]> █

```

Experiment Number: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>book</title>
</head>
<body align="center"><u>AIR INDIA</u><br>
<a href="add_airline.html">Add airline details</a><br>
<a href="search5.html">Search airline details</a><br>
</body>
</html>

```

add_airline.html

```
<html><head>
<title>add airline</title></head>
<body>
<form name="frm1" action="addll.php" method="POST">
<center><b><u>Enter Airline Details</u></b><br>
Airline Number:<input type="text" name="num"><br>
Name:<input type="text" name="name"><br>
Time:<input type="text" name="time"><br>
Source:<input type="text" name="source"><br>
Destination:<input type="text" name="des"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

addll.php

```
<?php
$num=$_POST['num'];
$name=$_POST['name'];
$time=$_POST['time'];
$source=$_POST['source'];
$des=$_POST['des'];
$con=new mysqli('localhost','fisat','fisat','fisatdb');
if($con==false)
{ echo 'Failed to connect'; }
else
{ echo 'connected'; }
$sql="INSERT INTO addb12 VALUES($num,'$name','$time','$source','$des)";
```

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

search5.html

```
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="searchll.php" method="POST">
<center>
<b><u>SEARCH AN AIRLINE DETAILS</u></b><br>
Enter source:<input type="text" name="source"><br>
Enter destination:<input type="text" name="des"><br>

<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

searchll.php

```
<?php
$source=$_POST['source'];
$des=$_POST['des'];
$con=new mysqli('localhost','fisat','fisat','fisatdb');
if($con==false)
{
echo 'Failed to connect';
}
else
{
echo 'connected\n';
}
$sql="select * from addb12 where source='$source' and destination='$des'";
if($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 airline'; }
}
else
{ echo "\nError:could not connect'; }
$con->close();
?>
```

Output:

localhost/~stud/airline.html

AIR INDIA

[Add airline details](#)

[Search airline details](#)

localhost/~stud/add_airline.html

Enter Airline Details

Airline Number:

Name:

Time:

Source:

Destination:

localhost/~stud/addll.php

connected
New row added

localhost/~stud/search5.html

SEARCH AN AIRLINE DETAILS

Enter source:

Enter destination:

localhost/~stud

connected\n1:Air India:1 AM:Sreelanka:Abudabi

MariaDB [fisatdb]> desc addb12;

Field	Type	Null	Key	Default	Extra
Number	int(10)	YES		NULL	
Name	varchar(20)	YES		NULL	
Time	varchar(10)	YES		NULL	
Source	varchar(20)	YES		NULL	
Destination	varchar(20)	YES		NULL	

5 rows in set (0.001 sec)

MariaDB [fisatdb]> select * from addb12
-> ;

Number	Name	Time	Source	Destination
1	Air India	1 AM	Sreelanka	Abudabi
2	Arya	2AM	chennai	sreelanka

2 rows in set (0.000 sec)

MariaDB [fisatdb]> select * from addb12 where source="Sreelanka";

Number	Name	Time	Source	Destination
1	Air India	1 AM	Sreelanka	Abudabi

1 row in set (0.000 sec)

MariaDB [fisatdb]> █