

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

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ANGAMALY-683577



'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA133 - WEB PROGRAMMING LAB

Name : FRANCIS B M

Branch : MASTER OF COMPUTER APPLICATIONS

Semester : 1

Roll No: 58

University Exam.Reg. No: FITMCA-2058

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

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‘FOCUS ON EXCELLENCE’

CERTIFICATE

*Certified that this is the Bonafide record of the Practical work done by Mr. **FRANCIS B M** (FIT21MCA-2058) in the **20MCA133- WEB PROGRAMMING** Laboratory of the Federal Institute of Science and Technology during the academic year 2021-2022.*

Signature of Staff in Charge

Name:

Date:

Signature of H.O.D

Name:

Date of University practical examination

Signature of

Internal Examiner

Signature of

External Examiner

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2	01/11/21	Create your bio data 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 3 hyperlinks		
3	08/11/21	Create an application form for MCA course in FISAT.		
4	22/11/21	Create a HTML page with different types of frames such as floating frame,navigation frame & mixed frame.		
5	22/11/21	Analyze CSS by applying the different styles using inline, external & internal style sheets in a HTML file.		
6	13/12/21	Create a HTML registration form and to validate the form using JavaScript code		
7	03/01/22	Create a HTML page to explain the use of various predefined functions in a string and math objects in JavaScript		
8	03/01/22	Create a HTML page to change the background color for every click of a button using JavaScript Event Handling		
9	03/01/22	Generate the calendar using JavaScript code by getting the year and month from the user		
10	10/01/22	Compose Electricity bill from user input based on a given tariff using PHP		
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.		
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.		
13	17/01/22	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		
14	17/01/22	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.		

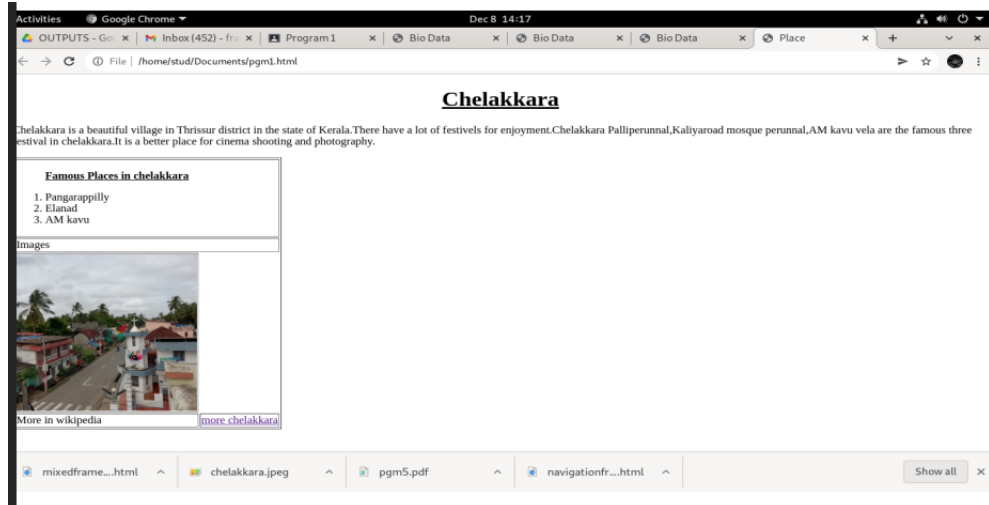
No: 1

Aim: Create a simple html file to demonstrate the use of different tags.

Source code

```
<!doctype html>
<html>
<head>
<title>Place</title>
</head>
<body bgcolor=#>
<p><u><h1 align="center">Chelakkara</u></h1>
<b>Chelakkara is a beautiful village in
Thrissur district in the state of Kerala. There are a
lot of festivals for enjoyment. Chelakkara
Palliperunnal, Kaliyaroos mosque perunnal, AM kavu vela
are the famous three festivals in Chelakkara. It is a
better place for cinema shooting and
photography.</b></p>
<table border=1>
<tr><td colspan="2"><ol><u><b>Famous Places in
Chelakkara</b></u></ol> <ol>
<li>Pangarappilly</li>
<li>Elanad</li>
<li>AM kavu</li>
</ol>
<tr>
<td colspan="2">Images</td></tr>
<td><img
src=/home/ccf/Downloads/chelakkara.jpeg
align="right" /></td></tr>
<td>More in wikipedia</td>
<td>
<a href="https://en.wikipedia.org/wiki/Chelakkara">more Chelakkara</a></td>
</body>
</html>
```

Output



No: 2

Aim: Create your bio data 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 3 hyperlinks .

Source code

```
<html>
<head>
<title>biodata</title>
</head>
<body bgcolor="red">
<b><p><h1><center>BIODATA</b></h1></p><br>
<center></center><br>
<p><b><u><center><font color="black">Personal
details</u></center></b></p></font> <table border="1"
width="600" align="center" bgcolor="orange">
<tr>
<th>Name</th>
<td>Francis</td>
</tr>
<tr>
<th>Father Name</th>
<td>Bintoo </td>
</tr>
<tr>
<th>Mother Name</th>
<td>Sicily</td>
</tr>
<tr>
<th>Date of Birth</th>
<td>20/07/2000</td>
</tr>
</table>
<br><br>
<center>For Qualification details</centers><br><a href="
file:///home/stud/Documents/q.html
">Click here </a>
</body>
</html>
```

Qualification code.

```

<html>
<head>
<title>biodata</title>
</head>
<body bgcolor="blue">
<b><p><h1><center>BIODATA</b></h1></p><br>
<center></center><br>
<p><b><u><center><font
color="black">Qualifications</u></center></b></p></font
> <table border="1" width="600" align="center"
bgcolor="orange"> <tr>
<th>Name</th>
<td>Francis</td>
</tr>

<tr>
<th>10th Percentage</th>
<td>95%</td>
</tr>
<tr>
<th>+2 Percentage</th>
<td>86%</td>
</tr>
<tr>
<th>Degree Percentage</th>
<td>68.4%</td>
</tr>
</table><br><br>
<center>For Contact details<br>
<a href=" file:///home/stud/Documents/c.html ">Click Here </a></center>
</body>
</html>

```

Contact code

```

<html>
<head>
<title>biodata</title>
</head>
<body bgcolor="pink">
<b><p><h1><center>BIODATA</b></h1></p><br>
<center></center><br>

```



```

<p><b><u><center><font color="black">Contact
Details</u></center></b></p></font> <table border="1"
width="600" align="center" bgcolor="orange">
<tr>
<th>Name</th>
<td>Francis</td>
</tr>
<tr>
<th>Place</th>
<td>Thrissur </td>
</tr>
<tr>
<th>District</th>
<td>Thrissur</td>
</tr>
<tr>
<th>State</th>
<td>Kerala</td>
</tr>
<tr>
<th>PIN</th>
<td>680586</td>
</tr>
<tr>
<th>Phone NO.</th>
<td>8138847698</td>
</tr>
<tr>
<th>E-Mail</th>
<td>francisbm18@gmail.com</td>
</tr>
</table><br>
<center>To return home<br>


<a href=" file:///home/stud/Documents/program2.html ">Click Here
</a></center></center>

</body>
</html>

```

Outputs

BIODATA




Personal details

Name	Francis
Father Name	Bintoo
Mother Name	Sicily
Date of Birth	20/07/2000

For Qualification details
[Click here](#)

BIODATA




Qualifications

Name	Francis
10th Percentage	95%
+2 Percentage	86%
Degree Percentage	68.4%

For Contact details
[Click Here](#)

BIODATA



Contact Details

Name	Francis
Place	Thrissur
District	Thrissur
State	Kerala
PIN	680586
Phone NO.	8138847698
E-Mail	francisbm18@gmail.com

To return home
[Click Here](#)

No: 3

Aim: Create an application form for MCA course in FISAT.

Source code

```

<!doctype html>
<html>
<head>
<title>application form</title>
</head>
<body align="center">
<form method="POST" action="comments">
<h1 align="center"><u>Welcome to Fisat</u></h1>
Name<br><input name="name"
type="text"size="20"><br></br> Fathers name<br><input
name="name" type="text" size="20"><br></br>
Address<br><textarea name="address" rows="5"
cols="20"></textarea><br></br>
D.O.B<br><input type="date"><br></br>
Email<br><input name="email" type="email" size="20"><br></br>
Mobile number <br><input name="number" type="number"
size="20"><br></br>

Gender<br>
<input type="radio" name="gender" value="male">Male
<input type="radio" name="gender" value="female">Female
<input type="radio" name="gender"
value="Others">Others<br></br>

Which course do you want to take <br><select
name="course"> <option>MBA
<option selected>MCA
<option>B.tech
</select><br></br>

Which course did you last take<br>
<select name="course">
<option selected>BCA
<option>Bsc.Maths
<option>Bsc.CS
<option>Bsc.Physics
<option>B.com
<option>Bsc.EL</select><br></br>

Marks obtained in SSLC &nbsp;<br><input type="number"
name="number" size="5"><br></br>
Marks obtained in +2<br><input type="number"
name="number" size="5"><br></br>
Marks obtained in Degree<br><input type="number" name="number"
size="5" ><br></br>

```

```
Have you written lbs &nbsp;  <input type="checkbox"
name="name" value="name"><br></br>
```

```
Have you studied maths<br>
<input type="button" name="yes" value="Yes">
<input type="button" name="no" value="No"><br></br>
```

```
<h4>Thankyou</h4><br><input type="submit" name="submit"
value="Submit"> <input type="reset" name="reset"
value="Reset"><br></br>
```

Output

The screenshot shows a web browser window with the title 'Welcome to Fisat'. The form contains the following elements:

- Name:
- Fathers name:
- Address:
- D.O.B:
- Email:
- Mobile number:
- Gender: ☐ Male ☐ Female ☐ Others
- Which course do you want to take:
- Which course did you last take:
- Marks obtained in SSLC:
- Marks obtained in +2:
- Marks obtained in Degree:
- Have you written lbs: ☐
- Have you studied maths: ☐
- Buttons:

No: 4

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

Source code1.Paragraph.html

```
<html>
<head>
<title>para</title>
</head>
<body>
<h2>Paragraph</h2>
<p>Fisat college is a private selffinancing college
for engineering</p> </body>
</html>
```

2.Course.html

```
<html>
<head>
<title>course</title>
</head>
<body>
<h2>HTML</h2>
<p>Html is a markup language.It is simple and
easy to understand.</p> </body>
</html>
```

3.Navigation.html

```
<html>
<head>
<title>navigation</title>
</head>
<body>
<a href="course.html"
target="lowerF">Html course</a><br><br>
<a href="paragraph.html"
target="lowerF">Paragraph</a> </body>
</head>
</html>
```

4.Intro.html

```
<html>
<head>
<title>frame</title>
```

```

</head>
<body>
<h2>Welcome to html course</h2>
<iframe src="/home/stud/Documents/html"
width="400",height="400"></iframe>
</body>
</html>

```

5. frame.html

```

<html>
<head><title>Frames 1</title></head>
<frameset cols="140, *">
<frame name="navF" src="navigation.html">
<frame name="mainF" src="intro.html">
</frameset>
</html>

```

6. frame1.html

```

<html>
<head><title>Frames 2</title></head>
<frameset cols="140, *">
<frame name="navF" src="navigation.html">
<frameset rows="15%, 70%">
<frame name="upperF" src="intro.html">
<frame name="lowerF" src="course.html">
</frameset>
</frameset>

```







Output

Output of frame.html (Navigation)

[Html course](#)

[Paragraph](#)

Welcome to html course






Name	Size	Date modified
 course.html	151 B	29/11/2021, 14:47:05
 frame.html	169 B	13/12/2021, 13:59:57
 frame1.html	239 B	29/11/2021, 15:14:45
 intro.html	175 B	13/12/2021, 14:27:37
 navigation.html	194 B	13/12/2021, 14:01:38
 paragraph.html	150 B	29/11/2021, 14:22:22

Output of frame1.html(Mixed)

[Html course](#)

[Paragraph](#)

Welcome to html course




Name	Size	Date modified
 course.html	151 B	29/11/2021, 14:47:05
 frame.html	169 B	13/12/2021, 13:59:57
 frame1.html	239 B	29/11/2021, 15:14:45
 intro.html	175 B	13/12/2021, 14:27:37
 navigation.html	194 B	13/12/2021, 14:01:38

HTML

Html is a markup language.It is simple and easy to understand.

Output (Floating)

Welcome to html course

Index of /home/stud/Document		
 [parent directory]		
Name	Size	Date modified
 course.html	151 B	29/11/2021, 14:47:05
 frame.html	169 B	13/12/2021, 13:59:57

No: 5

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

Source codeHtml code

```
<html>
<head>
<title>register</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<form method="" action="">
<caption><h1><center>REGISTRATION
FORM</center></caption></h1> <table width="400" >
<tr>
<th>Enter your first name</th>
<td><input type="text" name="fn" id="fn1"
maxlength="10"/></td> </tr>
<tr>
<th>Enter your last name</th>
<td><input type="text"/></td>
</tr>
<tr>
<th>Enter your password</th>
<td><input type="password"/></td>
</tr>
<tr>
<th>ReEnter your password</th>
<td><input type="password"/></td>
</tr>
<tr>
<th>Enter your email</th>
<td><input type="email"/></td>
</tr>
<tr>
<th>Enter your mobile</th>
<td><input type="number"/></td>
</tr>
<tr>
<th>Enter your address</th>
<td><textarea rows="8" cols="20"></textarea></td>
</tr>
<tr>
<th>Select your gender</th>
```



```

<td>
male<input type="radio" name="g" value="m"/>
female<input type="radio" name="g" value="f"/>

</td>
</tr>
<tr>
<th>Qualification</th>
<td>
MCA<input type="checkbox" name="x[]" value="h"/>
BCA<input type="checkbox" name="x[]" value="h2"/>
</td>
</tr>
<tr>
<th>Select your DOB</th>
<td><input type="date"/></td>
</tr>
<tr>
<th>Select your Country</th>
<td>
<select name="country">
<option value="" selected="selected" disabled="disabled">Select your
country</option> <option value="1">India</option>
<option value="2">UAE</option>
</select>
</td>
</tr>
<tr>
<th>Upload your pic</th>
<td><input type="file"/></td>
</tr>
</table>
</form>
<pre>
<input type="submit" name="send" value="Send">
<input type="reset" name="clear" value="Clear"></pre>
</body>
</html>

```

CSS Code

```

body{
background-color:yellow;
color:blue;
}
h1{
font-size:36;
color:green;
}
th{

```

```
font-size:20px;
color:black;
}
```

Program for internal and inline css

```
<!DOCTYPE HTML>
<html>
<head>
<title>Floating Frame</title>

<style>
body {background-color: yellow;}
h1 {color: red;}
p {color: blue;}
</style>
</head>
<body>
<h1 align="center" style="color:green;">Paragraph</h1>
<p>"A paragraph is a series of related sentences developing a central idea, called the
topic. Try to think about paragraphs in terms of thematic unity: a paragraph is a sentence
or a group of sentences that supports one central, unified idea. Paragraphs add one idea
at a time to your broader argument."</p>
</body>
</html>
```

Output

No:6

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

Source code

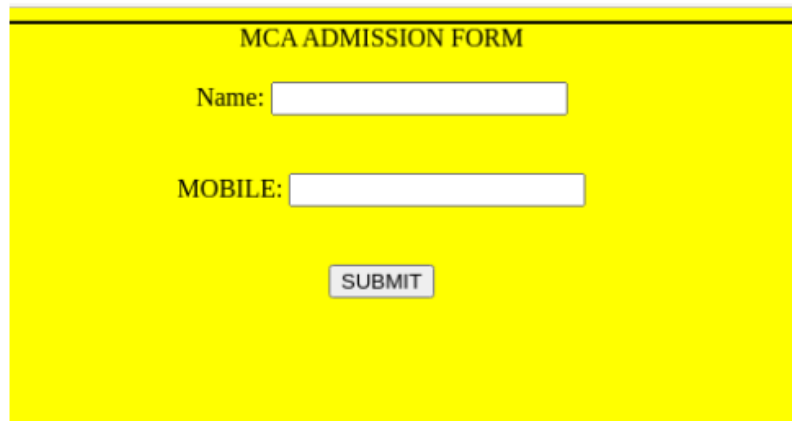
```
<html>
<head>
<script>
function validate(){

var x = document.forms["form1"]["phone"].value;
if(x=="")
{
alert("required phone number");
}
var y = document.forms["form1"]["name"].value;
if(y=="")
{
alert("required a name ");
}
}
</script>
</head>
<body bgcolor="yellow" style="border:solid black 2px;"><center>MCA
ADMISSION FORM</center>
<form name="form1" method="post" onsubmit="validate()">
<div align="center">


<br>
<label>Name:</label>
<input name="name" size="20" type="text" ><br>
<br>
<br>
<label>MOBILE:</label>
<input name="phone" size="20" type="number" ><br>
<br>
<br>
<div align="center">
<input type="submit" value="SUBMIT">

</div>
<br>
<br>
</form>
<br><br>
</body></html>
```

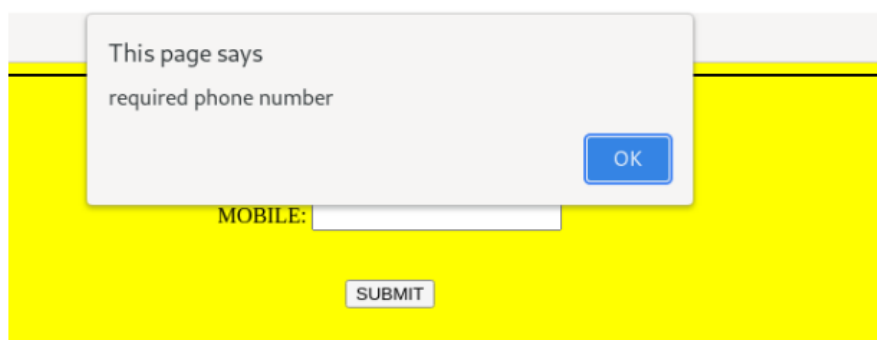
Output



A screenshot of a web form titled "MCA ADMISSION FORM" on a yellow background. The form contains two input fields: "Name:" and "MOBILE:". Below the "MOBILE:" field is a "SUBMIT" button.



A screenshot of the "MCA ADMISSION FORM" showing a validation error. A grey dialog box with the text "This page says required a name" and an "OK" button is displayed over the form. The "MOBILE:" field contains the text "88888". The "SUBMIT" button is visible below the form.



A screenshot of the "MCA ADMISSION FORM" showing a validation error. A grey dialog box with the text "This page says required phone number" and an "OK" button is displayed over the form. The "MOBILE:" field is empty. The "SUBMIT" button is visible below the form.

No: 7

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

(String Functions- Length,slice, substring,substr,replace,toUppercase,toLowercase,concat,trim,charAt,convert string to array,indexof, search,includes)

(Math Functions- round,ceil,floor,trunc,sign, pow,sqrt,abs,sin,cos,min,max,random,log)

Source code

Length

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

<h2>JavaScript String length</h2>

<p id="namelength"></p>

<script>
let text = "Francis B.M";
document.getElementById("namelength").innerHTML
= text.length; </script>

</body>
</html>
```

SLICE

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

<h2>JavaScript String slice</h2>
<p id="nameslice"></p>

<script>
let str = "FRANCIS,PETER";
document.getElementById("nameslice").innerHTML =
str.slice(0,8); </script>

</body> </html>
```

substring

```

<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String substring</h2>

<p id="subs"></p>

<script>
let str = "hijk,pqrs,abcf";
document.getElementById("subs").innerHTML =
str.substring(7,13); </script>

</body>
</html>

```

substr

```

<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String Methods</h2>

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

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

<script>
let str = "Gokul,peter,jhon";
document.getElementById("demo").innerHTML = str.substr(5,6);
</script>

</body>
</html>

```

STRING REPLACE

```

<!DOCTYPE html>
<html>

```

```

<body>

<h2>JavaScript String replace</h2>

<button onclick="myFunction()">replace</button>

<p id="click">Please visit APPLE!</p>

<script>
    function myFunction() {
let text = document.getElementById("click").innerHTML;
    document.getElementById("click").innerHTML =
        text.replace("APPLE","GOOGLE");
    }
</script>

</body>
</html>

```

to uppercase&to lowercase

```

<!DOCTYPE html>
<html>
<body>

<h2>JavaScript String uppercase</h2>

<button onclick="myFunction()">click to
    upcase</button> <button
    onclick="myFunction1()">click to
    lowercase</button>

<p id="demo">INDIA is MY country</p>

<script>
    function myFunction() {
        let text =
document.getElementById("demo").innerHT
        ML;
document.getElementById("demo").innerHT
        ML = text.toUpperCase();
    }
    function myFunction1() {
        let text =
document.getElementById("demo").innerHT
        ML;

```

```
document.getElementById("demo").innerHT
ML = text.toLowerCase();
    }
</script>

</body>
</html>
```

string concat

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

<h2>JavaScript String concat</h2>
<p id="demo"></p>

<script>
let text1 = "india";
let text2 = "is";
let text3 = "my country";
let text4 = text1.concat(" ",text2);
let text5 = text4.concat(" ",text3);
document.getElementById("demo").innerH
TML = text5; </script>

</body>
</html>
```

trim

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

<h1>JavaScript trim</h1>
<p id="demo"></p>

<script>
let text1 = " oopss ";
let text2 = text1.trim();

document.getElementById("demo").innerHTML =
"Length1 text1=" + text1.length + "<br>Length2 text2=" +
text2.length; </script>

</body>
```


</html>

charAt()

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript String charat</h2>

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

<script>

```
var text = "FRANCISBM";  
document.getElementById("demo").innerHTML =  
text.charAt(7); </script>
```

</body>

</html>

string to array

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript String to array</h2>

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

<script>

```
let text = "india*is*my*country";  
const myArray = text.split("*");  
document.getElementById("demo").innerHTML  
= myArray[0]; </script>
```

</body>

</html>

index of

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript String index</h2>

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

<script>

```
let str = "find the index of FRANCISBM";
```

```
document.getElementById("demo").innerHTML =  
str.indexOf("FRANCISBM"); </script>
```

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

search

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

```
<h2>JavaScript String search</h2>  
<p id="demo"></p>  
<script>  
let str = "find fran from the name francis";  
document.getElementById("demo").innerHTML =  
str.search("fran"); </script>
```

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

include

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

```
<h2>JavaScript String include</h2>  
<p id="demo"></p>
```

```
<script>  
let text = "Hello veenu, welcome to the milkyway.";  
document.getElementById("demo").innerHTML =  
text.includes("veenu"); </script>
```

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

math functions

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

```
<h2>JavaScript Math.round()</h2>  
<p id="demo"></p>  
<p id="demo1"></p>
```

```

        <p id="demo2"></p>
        <p id="demo3"></p>
        <p id="demo4"></p>
        <p id="demo5"></p>
        <p id="demo6"></p>
        <p id="demo7"></p>
        <p id="demo8"></p>
        <p id="demo9"></p>
        <p>Angle in radians = (angle in degrees) *
          PI / 180.</p> <p id="demo10"></p>
        <p id="demo11"></p>
        <p id="demo12"></p>
        <p id="demo13"></p>
        <script>
        document.getElementById("demo").innerHTML =
          Math.round(4.5);
        document.getElementById("demo1").innerHTML =
          Math.ceil(4.4);
        document.getElementById("demo2").innerHTML =
          Math.floor(4.7);
        document.getElementById("demo3").innerHTML =
          Math.trunc(4.7);
        document.getElementById("demo4").innerHTML =
          Math.sign(4);
        document.getElementById("demo5").innerHTML =
          Math.sign(-4);
        document.getElementById("demo6").innerHTML =
          Math.sign();
        document.getElementById("demo7").innerHTML =
          Math.pow(8,2);
        document.getElementById("demo8").innerHTML =
          Math.sqrt(64);
        document.getElementById("demo9").innerHTML =
          Math.abs(-4.4);
        document.getElementById("demo10").innerHTML =
          "The sine value of 90 degrees is " + Math.sin(90 *
            Math.PI / 180);
        document.getElementById("demo11").innerHTML =
          "The cosine value of 0 degrees is " + Math.cos(0 *
            Math.PI / 180);
        document.getElementById("demo12").innerHTML =
          Math.max(0, 150, 30, 20, -8, -200);
        document.getElementById("demo13").innerHTML =
          Math.random(); </script>

        </body>
        </html>

```

math functions

```

<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Math.round()</h2>
  <p id="demo"></p>
  <p id="demo1"></p>
  <p id="demo2"></p>
  <p id="demo3"></p>
  <p id="demo4"></p>
  <p id="demo5"></p>
  <p id="demo6"></p>
  <p id="demo7"></p>
  <p id="demo8"></p>
  <p id="demo9"></p>
  <p>Angle in radians = (angle in degrees) *
    PI / 180.</p> <p id="demo10"></p>
  <p id="demo11"></p>
  <p id="demo12"></p>
  <p id="demo13"></p>
  <script>
    document.getElementById("demo").innerHTML =
      Math.round(4.5);
    document.getElementById("demo1").innerHTML =
      Math.ceil(4.4);
    document.getElementById("demo2").innerHTML =
      Math.floor(4.7);
    document.getElementById("demo3").innerHTML =
      Math.trunc(4.7);
    document.getElementById("demo4").innerHTML =
      Math.sign(4);
    document.getElementById("demo5").innerHTML =
      Math.sign(-4);
    document.getElementById("demo6").innerHTML =
      Math.sign();
    document.getElementById("demo7").innerHTML =
      Math.pow(8,2);
    document.getElementById("demo8").innerHTML =
      Math.sqrt(64);
    document.getElementById("demo9").innerHTML =
      Math.abs(-4.4);
    document.getElementById("demo10").innerHTML =
      "The sine value of 90 degrees is " + Math.sin(90 *
        Math.PI / 180);
    document.getElementById("demo11").innerHTML =
      "The cosine value of 0 degrees is " + Math.cos(0 *
        Math.PI / 180);
  </script>

```

```
document.getElementById("demo12").innerHTML =  
    Math.max(0, 150, 30, 20, -8, -200);  
document.getElementById("demo13").innerHTML =  
    Math.random(); </script>  
  
    </body>  
    </html>
```

Output

JavaScript String length

11

JavaScript String slice

FRANCIS,

JavaScript String substring

rs,abc

JavaScript String Methods

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

,peter

JavaScript String replace

replace

Please visit GOOGLE!

JavaScript String uppercase

click to upcase

click to lowercase

INDIA is MY country

JavaScript String concat

india is my country

JavaScript trim

Length1 text1=14

Length2 text2=5

JavaScript String charat

B

JavaScript String to array

india

JavaScript String index

18

JavaScript String search

5

JavaScript String include

true

5

5

4

4

1

-1

NaN

64

8

4.4

Angle in radians = (angle in degrees) * PI / 180.

JavaScript Math.log()

1.791759469228055

No:8

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

Source code**Background change**

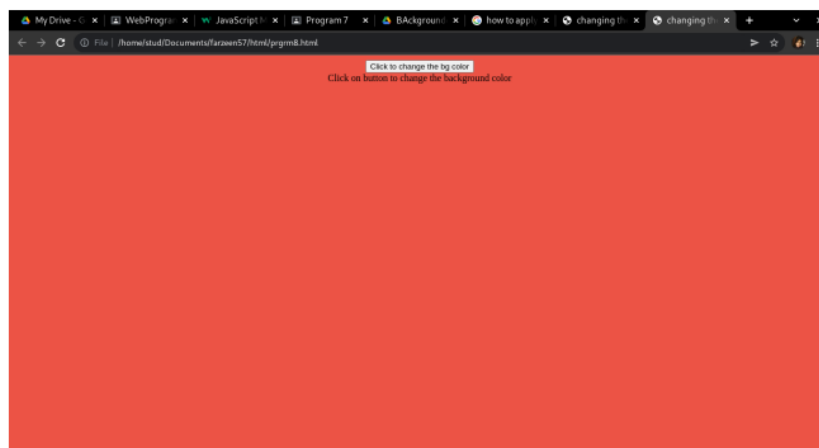
```

<!DOCTYPE HTML>
  <html>
  <head>
  <title>
    changing the background color
  </title>
  </head>
  <body style = "text-align:center;">

    <button type="button" id="color-button" onclick="changeBg()">Click to
    change the bg color </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

No:9

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

Source 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: 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>';
    }

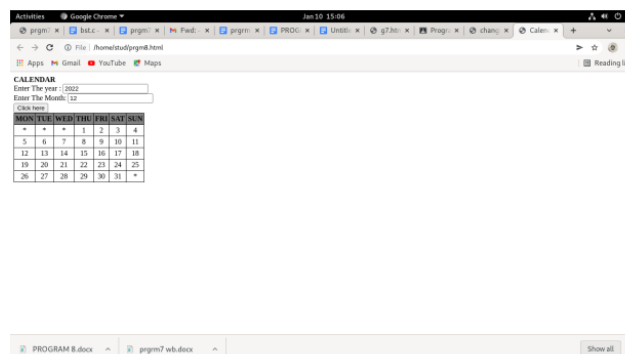
    while (d.getMonth() == mon) {
        table += '<td>' + d.getDate() + '</td>';
        if (getDay(d) % 7 == 6) {
            table += '</tr><tr>';
        }

        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



No:10

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

Source code

```
<!DOCTYPE html>

<head>
    <title>PHP - Calculate Electricity Bill</title>
</head>

<?php
$result_str = $result = "";
if (isset($_POST['unit-submit'])) {
    $units = $_POST['units'];
    if (!empty($units)) {
        $result = calculate_bill($units);
        $result_str = 'Total amount of ' . $units . ' - '
        . $result; }
    }
/**
 * To calculate electricity bill as per unit cost
 */
function calculate_bill($units) {
    $unit_cost_first = 6.50;
    $unit_cost_second = 7.00;
    $unit_cost_third = 8.20;
    $unit_cost_fourth = 9.50;

    if($units <= 50) {
        $bill = $units * $unit_cost_first;
    }
    else if($units > 50 && $units <= 100) {
        $temp = 50 * $unit_cost_first;
        $remaining_units = $units - 50;
        $bill = $temp + ($remaining_units *
        $unit_cost_second); }
    else if($units > 100 && $units <= 200) {
        $temp = (50 * 3.5) + (100 *
        $unit_cost_second); $remaining_units
        = $units - 150;
        $bill = $temp + ($remaining_units * $unit_cost_third);
    }
    else {
```

```

    $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 *
    $unit_cost_third); $remaining_units = $units - 250;
    $bill = $temp + ($remaining_units * $unit_cost_fourth);
}
return number_format((float)$bill, 2, '.', '');
}

?>

<body>
    <div id="page-wrap">
        <h1>Php - Calculate Electricity Bill</h1>

        <form action="" method="post" id="quiz-form">
            <input type="number" name="units" id="units" placeholder="Please
enter no. of Units" />
            <input type="submit" name="unit-submit" id="unit-submit"
            value="Submit" /> </form>

            <div>
                <?php echo '<br />' . $result_str; ?>
            </div>
        </div>
    </body>
</html>

```

Output

Php - Calculate Electricity Bill

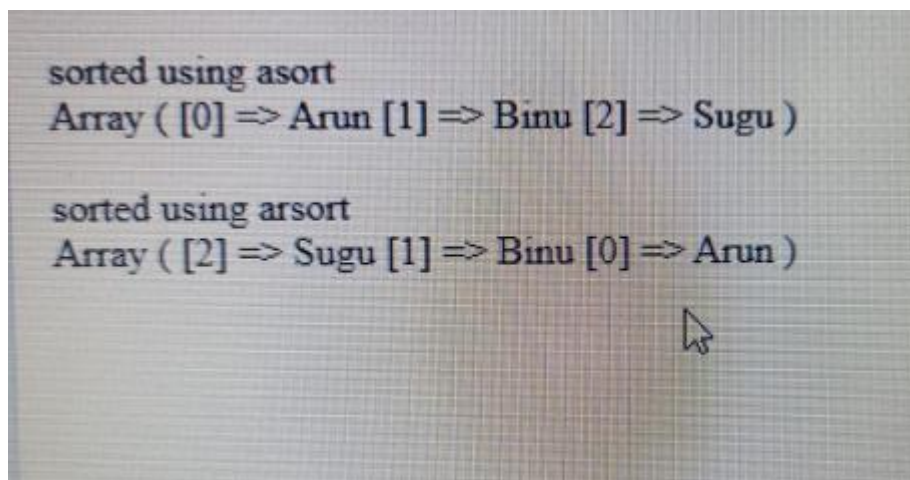
Total amount of 26 - 169.00

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.

Source code

```
<?php
$name=array("Arun","Binu","Sugu");
asort($name);
echo "sorted using asort";
echo "<br>";
print_r($name);
echo "<br>";
echo "<br>";
arsort($name);
echo "sorted using arsort";
echo "<br>";
print_r($name);
?>
```

OutputA screenshot of a computer screen displaying the output of a PHP script. The output is divided into two sections. The first section is titled 'sorted using asort' and shows the array 'Array ([0] => Arun [1] => Binu [2] => Sugu)'. The second section is titled 'sorted using arsort' and shows the array 'Array ([2] => Sugu [1] => Binu [0] => Arun)'. A mouse cursor is visible at the bottom right of the screenshot.

```
sorted using asort
Array ( [0] => Arun [1] => Binu [2] => Sugu )

sorted using arsort
Array ( [2] => Sugu [1] => Binu [0] => Arun )
```

No:12

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

Source 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>";
?>
Department of Computer Applications
Federal Institute of Science and Technology (FISAT) TM Page no
62
</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

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.

Source codeBOOKINFO.HTML

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

ADDBOOK.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>
```

ADD1.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"; }

$sql="INSERT INTO STUDENT22
VALUES($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="search.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>

```

SEARCH.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->closed();
}else
{ echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->closed();
?>
```

Outputs

BOOK INFORMATION SYSTEM

[Add Book](#)
[Search Book](#)

Enter Book Details

Access Number:

Title:

Author:

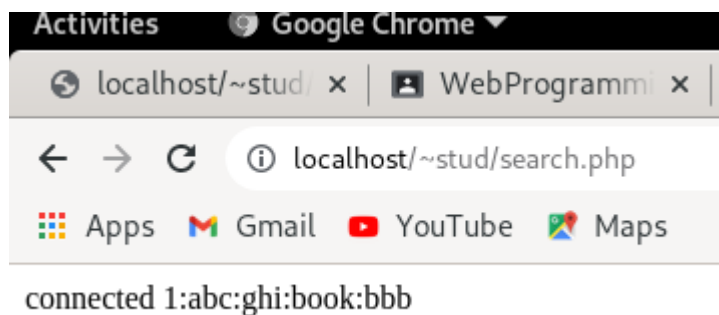
Edition:

Publisher:

connected
New row added

SEARCH A BOOK

Enter book title:



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.

Source codeAirlineinfo.html

```
<html>
<head>
<title>FLIGHT INFORMATION</title>
</head>
<center>
<body align="center"><font size="20"><b><u>FLIGHT INFORMATION
SYSTEM</u></b><br><br><br>
<table border="2" cellpadding="10" cellspacing="10">
<th>
<a href="add.html">Add Flight Details</a><br>
</th>
<th>
<a href="search.html">Search Flights</a><br>
</th>
</body>
</html>
```

Add.html

```
<html><head>
<title>ADD FLIGHT DETAILS</title></head>
<body>
<form name="frm1" action="addl.php" method="POST">
<center><b><u>Enter Flight Details</u></b><br><br>
<table border="1" cellpadding="6" cellspacing="2" align="center">
<tr>
<td>
Flight Number:</td><td><input type="text" name="num">
</td></tr><tr><td>
Flight Name:</td><td><input type="text" name="tit">
</td></tr><tr><td>
Source:</td><td><input type="text" name="author">
</td></tr><tr><td>
Destination:</td><td><input type="text" name="edi">
</td></tr><tr><td>
Date and Time of Depature:</td><td><input type="datetime-local" name="pub">
</td></tr><tr><td>
<input type="submit" name="Submit">
</td><td>
<input type="reset" name="Reset">
</td></tr>
```

```
</form>
</body>
</html>
```

Search.html

```
<html>
<head>
<title>SEARCH</title>
</head>
<body>
<form name="frm2" action="searchl.php"
method="POST">
<center>
<b><u>SEARCH FLIGHT</u></b><br><br>
<table border="1" cellpadding="6" cellspacing="2" align="center">
<tr>
<td>
Source:</td><td><input type="text" name="num">
</td></tr><tr><td>
Destination:</td><td><input type="text" name="tit">
</td></tr>
</table>
<br>
<br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

Add.php

```
<?php
$num=$_POST['num'];
$title=$_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"; }
$sql="INSERT INTO flightssystem VALUES($num,'$title','$author','$edi','$pub)";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
```

```

    }
    else
    {
    echo "ERROR:could not execute query";
    }
    $con->close();
    ?>

```

Search.php

```

<?php
$num=$_POST['num'];
$title=$_POST['tit'];

$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from flightssystem where source='$num' and destination='$title'";
if($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 find the flights"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
?>

```

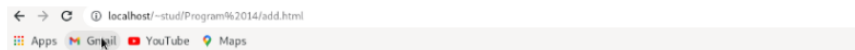
Outputs



FLIGHT INFORMATION SYSTEM

[Add Flight Details](#)
[Search Flights](#)

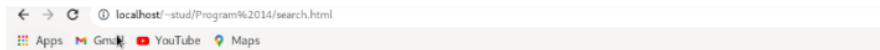
Airlineinfo.html



Enter Flight Details

Flight Number:	<input type="text"/>
Flight Name:	<input type="text"/>
Source:	<input type="text"/>
Destination:	<input type="text"/>
Date and Time of Departure:	<input type="text" value="dd/mm/yyyy. --:--"/> <input type="button" value="Calendar"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Add.html



SEARCH FLIGHT

Source:	<input type="text"/>
Destination:	<input type="text"/>
<input type="button" value="Submit"/>	

F

```
MariaDB [fisatdb]> desc flightssystem;
```

Field	Type	Null	Key	Default	Extra
fnumber	int(20)	NO	PRI	NULL	
name	varchar(25)	NO		NULL	
source	varchar(25)	NO		NULL	
destination	varchar(25)	NO		NULL	
date	datetime	NO		NULL	

```
5 rows in set (0.001 sec)
```

```
MariaDB [fisatdb]> select * from flightssystem;
```

fnumber	name	source	destination	date
1024	Java	Vegas	California	2022-01-12 16:12:00

```
1 row in set (0.000 sec)
```

Terminal