

# **FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)<sup>TM</sup>**

**HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577**



**FOCUS ON EXCELLENCE**

**20MCA133 WEB PROGRAMMING LAB**

**LABORATORY RECORD**

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**Branch: MASTER OF COMPUTER APPLICATIONS**

**Semester: 1      Batch: A      Roll No: 1**

**University Registration Number: FIT21MCA-2001**

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# FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)<sup>TM</sup>

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

## CERTIFICATE

*This is to certify that this is a Bonafide record of the Practical work done by ABHIJITH RAJEEV(FIT21MCA-2001) in the 20MCA133 WEB 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**

<b>Sl No</b>	<b>Date of Experiment</b>	<b>Title of the Experiment</b>	<b>Page No:</b>	<b>Signature of Staff –In – Charge</b>
1	01/11/2021	Model a simple HTML file related to your native place to demonstrate the useage of different tags		
2	01/11/2021	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	08/11/2021	Create an application form for MCA course in FISAT.		
4	22/11/2021	Create a HTML page with different types of frames such as floating frame, navigation frame & mixed frame.		
5	22/11/2021	Analyze CSS by applying the different styles using inline, external & internal style sheets in a HTML file		
6	13/12/2021	Create a HTML registration form and to validate the form using JavaScript code		
7	03/01/2022	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,c os,min,max,random,log)		
8	03/01/2022	Create a HTML page to change the background color for every click of a button using JavaScript Event Handling		
9	03/01/2022	Generate the calendar using JavaScript code by getting the year and month from the user.		
10	10/01/2022	Compose Electricity bill from user input based on a given tariff using PHP.		

<b>Sl No</b>	<b>Date of Experiment</b>	<b>Title of the Experiment</b>	<b>Page No:</b>	<b>Signature of Staff –In – Charge</b>
11	10/01/2022	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	10/01/2022	Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.		
13	17/01/2022	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	17/01/2022	Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.		

**PROGRAM 1**

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

**SOURCE CODE**

```
<html>
<head>
<title>about native place</title>
</head>
<body background="/home/ccf/Downloads/kan.jpg"bgcolor="yellow"
text="red" align="center" >
<h1><b><u>KANNUR</u></b></h1>
</br>
</br>

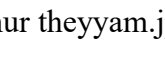
<p>Kannur is one of the 14 districts along the west coast in the state of
Kerala, India. The city of Kannur is the district headquarters and
gives the district its name. The old name, Cannanore, is the
anglicized form of the
Malayalam name "Kannur". Kannur district is bounded by Kasaragod
District to the north, Kozhikode district to the south, Mahé district to the
southwest
and Wayanad District to the southeast. To the east, the district is bounded
by the Western Ghats, which forms the border with the state of Karnataka
(Kodagu district). The Arabian Sea lies to the west. Paithalmala is the
highest point in Kannur District (1,372m). Enclosed within the
southern part of the district is the Mahé district of the Union Territory
of Puducherry.
The district was established in 1957.</p></br></br></br>

<p>Kannur Municipal Corporation is the sixth-largest urban local
body in the state and Kannur Cantonment is the only Cantonment
Board in Kerala. Indian Naval Academy at Ezhimala is the Asia's
largest, and the world's third
largest, naval academy.Muzhappilangad beach is the longest Drive-In
Beach in Asia and is featured among the top 6 best beaches for driving
in the world in BBC article for Autos.Kannur district is home to some
forts which include St. Angelo Fort, and Tellicherry Fort. Thalassery
town in the district is known for the Thalassery pepper.</p>


Kannur is the sixth-most urbanised district in Kerala, with more than 50% of its residents living in urban areas. Kannur has an urban population of 1,640,986, which is the second largest in Kerala after Ernakulam district. It was part of the Malabar District under the Madras province during the British Raj.

Special about kannur

Kannur is dubbed as the City of Looms and Lores, thanks to the flourishing handloom industry and folk art called Theyyam. Theyyam is a ritualistic artform encompassing dance, music and mime, where the artist dons the guise of God. Kannur is believed to have got its name from being the land of Kannan or Krishna.



For more information click here

[https://en.wikipedia.org/wiki/Kannur\\_district#Tourism](https://en.wikipedia.org/wiki/Kannur_district#Tourism) Kannur

## OUTPUT



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**PROGRAM 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*****BIODATA.HTML:***

```
<html>
<head>
<title>BIODATA</title>
<body align="center" bgcolor="pink">
<br><br>
<form>
<table width="800" border="1" align="center" cellpadding="5"> <tr>
<td colspan="2"><center><b>Basic Info</b></center></td> </tr>
<tr>
<td width="50%" align="right">Full Name:</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td align="right">Father's Name:</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td align="right">Age:</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td align="right">sex</td>
<td><input type="radio" name="sex" value="m">
<label for="m">male</label></input>
<input type="radio" name="sex" value="f">
<label for="f">female</label></input>
<input type="radio" name="sex" value="o">
<label for="o">others</label></input></td>
</tr>
<tr>
<td align="right">Date of Birth:</td>
<td><input type="date"></td>
</tr>
<tr>
```

```
<td align="right">Religion:</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td align="right">Nationality:</td>
<td><input type="textfield"></td>
</tr>
</table>
</form>
for Q0...0ualification details
<a href="C:\Users\Asus\Documents\HTML/education.html">Click here</a> </body>
</html>
```

### OUTPUT:



The screenshot shows a web form titled "Basic Info" on a pink background. At the top center is a cartoon character icon. The form contains the following fields:

- Full Name:
- Father's Name:
- Age:
- sex: ☐ male ☐ female ☐ others
- Date of Birth:  
- Religion:
- Nationality:

Below the form, there is a link: "for Q0...0ualification details [Click here](#)".

### EDUCATION.HTML:

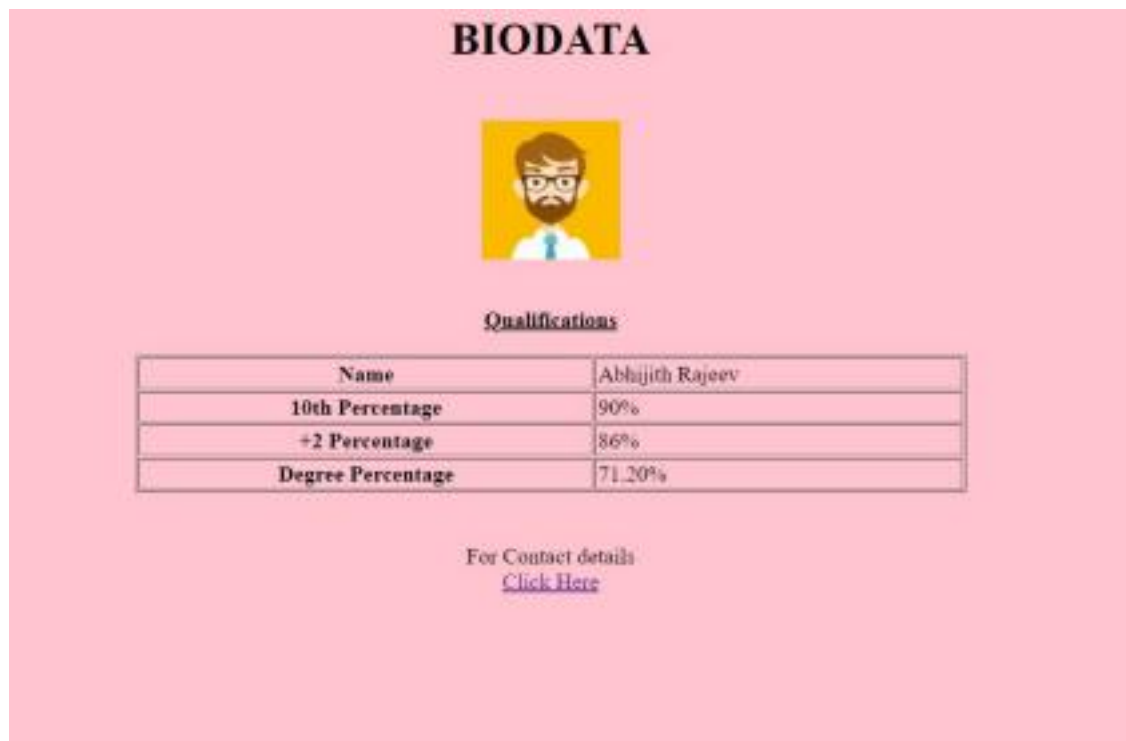
### PROGRAM CODE:

```
<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">Qualifications</u></center></b></p></font>
<table border="1" width="600" align="center" bgcolor="pink"> <tr>
<th>Name</th>
<td>Abhijith Rajeev</td>
</tr>
<tr>
<th>10th Percentage</th>
<td>90%</td>
</tr>
<tr>
<th>+2 Percentage</th>
<td>86%</td>
</tr>
<tr>
<th>Degree Percentage</th>
<td>71.20%</td>
</tr>
</table><br><br>
<center>For Contact details<br>
<a href="C:\Users\Asus\Documents\HTML/contact.html">Click Here </a></center> </body>
</html>
```

**OUTPUT:**



**BIODATA**



Qualifications

Name	Abhijith Rajeev
10th Percentage	90%
+2 Percentage	86%
Degree Percentage	71.20%

For Contact details  
[Click Here](#)

**CONTACT.HTML:**

**PROGRAM CODE:**

```

<html>
<head>
<title>BIODATA</title>
<body align="center" bgcolor="pink">
<table align="center" border="1">
<tr>
<td colspan="2"><center><b>Contact Details</b><hr/></center></td> </tr>
<tr>
<td align="right" align="top">Address:</td>
<td><input type="text" /></td>
</tr>
<tr>
<td align="right" align="top">Phone Number:</td>
<td><input type="text" /></td>
</tr>
<tr>
<td align="right">Email Address:</td>
<td><input type="text" /></td>
</tr>
</table>
<center><br><br>
for returning main page
<a href="C:\Users\Asus\Documents\HTML\Biodata.html">click here</a> </body>
</html>

```

**OUTPUT:**

Contact Details	
Address:	<input type="text"/>
Phone Number:	<input type="text"/>
Email Address:	<input type="text"/>

for returning main page [click here](#)

\*\*\*\*\*

### PROGRAM 3

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

#### SOURCE CODE

```
<Html>
<head>
<title>
Registration Page
</title>
</head>
<body bgcolor="grey">
<center></center>
<p><b><center>Angamaly,Mookannur,Hormisnagar</p></b></center><br>
<h3><b><center><font color="yellow">APPLICATION FORM
FOR MCA</center></b></p></font></h3><br>
<form>
First Name:
<input type="text" name="firstname" size="15"/> <br> <br> Last
Name:
<input type="text" name="lastname" size="15"/> <br> <br> Date of
Birth:
<input type="date" name="lastname" size="15"/> <br>
<br> <h3><b><p>Academic Mark</b></p></h3>
10th Percentage:
<input type="text" name="firstname" size="15"/> <br> <br> +2
Percentage:
<input type="text" name="firstname" size="15"/> <br> <br> Address:
<br> <br>
<textarea cols="80" rows="5" value="address">
</textarea> <br><br>
District:
<select>
<option value="MBA">Alappuzha</option>
<option value="MCA">Ernakulam</option>
<option value="M.Tech">Idukki</option>
<option value="MBA">Kannur</option>
<option value="MCA">Kasaragod</option>
<option value="M.Tech">Kollam</option>
<option value="MBA">Kottayam</option>
<option value="MCA">Kozhikode</option>
<option value="M.Tech">Malappuram</option>
<option value="MBA">Palakkad</option>
<option value="MCA">Pathanamthitta</option>
<option value="M.Tech">Thiruvananthapuram</option>
```

```
<option value="MCA">Wayanad</option>
<option value="M.Tech">Thrissur</option>
</select><br>
<br>
PIN Code:
<input type="text" name="firstname" size="15"/> <br> <br> Quota:
<select>
<option value="MBA">Rank List</option>
<option value="MCA">Management with Rank List</option>
<option value="M.Tech">Management</option>
</select><br>
<br>
Gender :
<input type="radio" name="male" value="male"/> Male
<input type="radio" name="female" value="female"/> Female
<input type="radio" name="other" value="other"/> Other
<br> <br>

Degree :
<input type="radio" name="male" value="male"/> BCA
<input type="radio" name="female" value="female"/> B.Sc Computer Science <input
type="radio" name="other" value="other"/> Other
<br> <br>
Phone :
<input type="text" name="country" value="+91" size="2"/> <input
type="text" name="phone" size="10"/> <br> <br>
Email:
<input type="email" id="email" name="email" size="15"/> <br> <br> <input
type="button" value="Submit"/>
</form>
</body>
</html>
```

## OUTPUT

**FISAT** Federal Institute of Science And Technology  
Approved by MHRD and PMAC, with 'A' Grade

Angamaly, Mookkannur, Kottayam

**APPLICATION FORM FOR MCA**

First Name:

Last Name:

Date of Birth:

Academic Marks

10th Percentage:

12th Percentage:

Address:

District:

JPN Code:

Gender:

Degree:

Phone:

Email:

\*\*\*\*\*

**PROGRAM 4**

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

**SOURCE CODE*****FLOATING FRAME:***

```
<html>
<head>
<title>floting frame</title>
</head>
<body style="background-color:#dcdcdc"><center>
<font color="YELLOW">
<h1>Floating Frame!!</h1><br>
<iframe src="/home/stud/Downloads/nature.jpg"
height="100%" width="50%">
</iframe>
</html>
```

***output:******MIXED FRAME:******PROGRAM CODE:***

```
<html>
<frameset cols="25%,*" scrolling="no" noresize> <frame
name="image1"
src="/home/stud/Downloads/mountain.jpg"></frame> <frameset
```

```
rows="50%,*" scrolling="no" noresize> <frame name="image2"
src="/home/stud/Downloads/tower.jpg"></frame> <frame
name="image3"
src="/home/stud/Downloads/roads.jpg"></frame> </frameset>
</html>
```

**OUTPUT:**



**NAVIGATION FRAME:**

**PROGRAM CODE:**

```
<html>
<head><title></title>
</head>
<body bgcolor="navyblue">
<iframe src="sample2.html" name=x align=right height="100%"
width="50%">
</iframe>
<a href="/home/stud/Downloads/cars.jpg"
target=x name=sample>image1</a><br>
<a href="/home/stud/Downloads/bikes.jpg"
target=x name=sample2>image2</a>

</body>
</html>
```

**OUTPUT:**





**PROGRAM 5**

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

**SOURCE CODE****REGISTERFORM.HTML:**

```

<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>

```

**STYLE.CSS:****PROGRAM CODE:**

```
body{
```

```
background-color:orange;
color:teal;
}
h1 {
font-size:36;
color:red;
}
th {
font-size:20px;
color:blue;
}
```

## OUTPUT

**REGISTRATION FORM**

Enter your first name

Enter your last name

Enter your password

ReEnter your password

Enter your email

Enter your mobile

Enter your address

Select your gender ☐ male ☐ female

Qualification ☐ MCA ☐ BCA

Select your DOB

Select your Country

Upload your pic:

\*\*\*\*\*

## PROGRAM 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 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>

<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 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>
```

## OUTPUTS

### Form validation.html

---

MCA ADMISSION FORM

Name:

MOBILE:

### success.html

MCA ADMISSION FORM

Name:

MOBILE:





**PROGRAM 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*****INPUT-1***

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript String Properties</h2>
<h3>Length</h3>
<p>The length property returns the length of a
string:<br>text="Abhijith Rajeew"<br>Command :text.length<br>Res
ult:</p>
<p id="length"></p>
<h3>Slice</h3>
<p>The slice() method extract a part of a string
and returns the extracted parts in a new string:<br>str="Apple,
Banana, Kiwi"<br>Command:str.slice(7,13),<br>Result:</p>
<p id="slice"></p>
<h3>substring()</h3>
<p>The substring() method extract a part of a string and returns the extracted parts
in a new string:<br>str1="Apple, Banana,
Kiwi"<br>Command :str1.substring(7,13)<br>Result :</p>
<p id="ss"></p>
<h3>Replace()</h3>
<p>Replace a text with another:<br>text="Please Visit
Microsoft"<br>Command :text.replace("Microsoft","W3Schools")<br>Result:</p>
<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p> <button
onclick="replaceFunction()">Try it</button>
<p id="replace">Please visit Microsoft!</p>
<h3>Upper Case()</h3>
<p>Convert string to upper case:<br>text="Hello
World!"<br>Command :text.toUpperCase()<br>Result:</p>
<button onclick="upFunction()">Try it</button>
<p id="toupper">Hello World!</p>
<h3>Lower Case()</h3>
<p>Convert string to lower case:<br>text="Hello
World!"<br>Command :text.toLowerCase()<br>Result:</p>
<button onclick="lowFunction()">Try it</button>
<p id="tolower">Hello World!</p>
<h3>Concate</h3>
```

```

<p>The concat() method joins two or more
strings:<br>text1="Hallo"<br>text2="World"<br>Command :text3=text1.concate("
".text2())<br>Result:</p>
<p id="concat"></p>
<h3>The trim() Method</h3>
<p id="trim"></p>
<h3>CharAt()</h3>
<p>The charAt() method returns the character at a given position in a
string:</p> <p id="cat"></p>
<script>
let text = "Abhijith Rajeev";
document.getElementById("length").innerHTML =
text.length; let str = "Apple, Banana, Kiwi";
document.getElementById("slice").innerHTML =
str.slice(7,13); let str1 = "Apple, Banana, Kiwi";
document.getElementById("ss").innerHTML =
str1.substring(7,13); function replaceFuction() {
let te = document.getElementById("replace").innerHTML;
document.getElementById("replace").innerHTML =
te.replace("Microsoft!","W3Schools!");
}
function upFunction() {
let text = document.getElementById("toupper").innerHTML;
document.getElementById("toupper").innerHTML =
text.toUpperCase();
}
function lowFunction() {
let text = document.getElementById("tolower").innerHTML;
document.getElementById("tolower").innerHTML =
text.toLowerCase();
}
let text1 = "Hello";
let text2 = "World!";
let text3 = text1.concat(" ",text2);
document.getElementById("concat").innerHTML = text3;
let text4= " Hello World! ";
let text5= text4.trim();
document.getElementById("trim").innerHTML =
"Length text4=" + text4.length + "<br>Length2 text5=" +
text5.length; var cattext = "HELLO WORLD";
document.getElementById("cat").innerHTML ="Character at position 0 of
HELLO WORLD is " + cattext.charAt(0);
</script>
</body>
</html>

```

## **OUTPUT:**

### **JavaScript String Properties**

#### **Length**

The length property returns the length of a string:

text="Abhijith Rajeev"

Command :text.length

Result:

15

#### **Slice**

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

str="Apple, Banana, Kiwi"

Command:str.slice(7,13),

Result:

Banana

#### **substring()**

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

str1="Apple, Banana, Kiwi"

Command :str1.substring(7,13)

Result :

Banana

---

### **Replace()**

Replace a text with another:

text="Please Visit Microsoft"

Command :text.replace("Microsoft","W3Schools")

Result:

Replace "Microsoft" with "W3Schools" in the paragraph below:

Please visit Microsoft!

### **Upper Case()**

Convert string to upper case:

text="Hello World!"

Command :text.toUpperCase()

Result:

Hello World!

**Lower Case()**

Convert string to lower case:

text="Hello World!"

Command :text.toLowerCase()

Result:

Hello World!

**Concat**

The concat() method joins two or more strings:

text1="Hallo"

text2="World"

Command :text3=text1.concat(" ".text2)()

Result:

Hello World!

**The trim() Method**

Length text4=22

Length2 text5=12

**CharAt()**

The charAt() method returns the character at a given position in a string:

Character at position 0 of HELLO WORLD is H

**INPUT-2**

```
<html>
<body>
<h2>JavaScript Math Object</h2>
<h3>Math.round</h3>
<p>Math.round(x) returns the value of x rounded to its nearest
integer:</p> <p id="round"></p>
<h3>Math.ceil</h3>
<p>Math.ceil() rounds a number <strong>up</strong> to its nearest
integer:</p> <p id="ceil"></p>
<h3>JavaScript Math.floor</h3>
<p>Math.floor(x) returns the value of x rounded <strong>down</strong> to
its nearest integer:</p> <p id="floor"></p>
<h3>Math.trunc</h3>
<p>Math.trunc(x) returns the integer part of x:</p>
<p id="trunc"></p>
<h2>Math.sign</h2>
<p>Math.sign(x) returns if x is negative, null or positive:</p>
<p id="sign"></p>
<h3>Math.pow</h3>
```

```

<p>Math.pow(x,y) returns the value of x to the power of
y:</p> <p id="pow"></p>
<h3>Math.sqrt()</h3>
<p>Math.sqrt(x) returns the square root of x:</p>
<p id="sqrt"></p>
<h3>Math.abs()</h3>
<p>Math.abs(x) returns the absolute (positive) value of x:</p>
<p id="abs"></p>
<h3>Math.sin()</h3>
<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="sin"></p>
<h3>Math.random()</h3>
<p>Math.random() returns a random number between 0 and
1:</p> <p id="rand"></p>
<p>Tip: Click on "Run" several times.</p>
<script>
document.getElementById("round").innerHTML
="Math.round(4.5)="+ Math.round(4.5);
document.getElementById("ceil").innerHTML = "Math.ceil(4.4)="+ Math.ceil(4.4);
document.getElementById("floor").innerHTML
="Math.floor(4.7)="+ Math.floor(4.7);
document.getElementById("trunc").innerHTML
="Math.trunc(4.7)="+ Math.trunc(4.7);
document.getElementById("sign").innerHTML = "Math.sign(4)="+
Math.sign(4); document.getElementById("pow").innerHTML =
"Math.pow(8,2)="+ Math.pow(8,2);
document.getElementById("sqrt").innerHTML = "Math.sqrt(64)="+ Math.sqrt(64);
document.getElementById("abs").innerHTML = "Math.abs(-4.4)="+ Math.abs(-4.4);
document.getElementById("sin").innerHTML = "The sine value of 90 degrees is "
+ Math.sin(90 * Math.PI / 180);
document.getElementById("rand").innerHTML =
"Math.random()="+Math.random();
</script>
</body>
</html>

```

**OUTPUT:**

**JavaScript Math Object**

**Math.round**

Math.round(x) returns the value of x rounded to its nearest integer:

Math.round(4.5)=5

**Math.ceil()**

Math.ceil() rounds a number **up** to its nearest integer:

Math.ceil(4.4)=5

**JavaScript Math.floor()**

Math.floor(x) returns the value of x rounded **down** to its nearest integer:

Math.floor(4.7)=4

**trunc()**

Math.trunc(x) returns the integer part of x:

Math.trunc(4.7)=4

### **Math.sign()**

Math.sign(x) returns if x is negative, null or positive:

Math.sign(4)=1

### **Math.pow()**

Math.pow(x,y) returns the value of x to the power of y:

Math.pow(8,2)=64

### **Math.sqrt()**

Math.sqrt(x) returns the square root of x:

Math.sqrt(64)=8

### **Math.abs()**

Math.abs(x) returns the absolute (positive) value of x:

Math.abs(-4.4)=4.4

### **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

### **Math.random()**

Math.random() returns a random number between 0 and 1:

Math.random()=0.12773604402284056

Tip: Click on "Run" several times.

\*\*\*\*\*

## PROGRAM 8

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

### SOURCE CODE

```
Create a HTML web page
using JavaScript Event Handling
to
change
the
background
color
Program
<html>
<head>
<title>
changing the background color
</title>
</head>
<body style = "text-align:center;">
<b><h1 style = "color:orange;" >
Color Changing Webpage</b>
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click
Here </button>
<br>
<script>
document.writeln( "Click above 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



\*\*\*\*\*

**PROGRAM 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: #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</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>';
elem.innerHTML = table;
}
createCalendar(calendar, year, month);
</script>
</body>
</html>

```

## OUTPUT

### CALENDAR

Enter The year :

Enter The Month:

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
31	*	*	*	*	*	*

\*\*\*\*\*



```
$_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>
```

### OUTPUTS

#### Program10.html

## Electricity Board

Consumer Number:	<input type="text" value="1532563322"/>
Customer name :	<input type="text" value="ABHIJITH RAJEEV"/>
Unit :	<input type="text" value="2000"/>
<input type="button" value="Submit"/>	

#### Program10.1.php

## Electricity Bill

Name :ABHIJITH RAJEEV

Consumer number :1532563322

Price/Unit :4

Unit :2000

Amount :8000

---

\*\*\*\*\*

## Page no 39

**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

[illegible]

## OUTPUT

```

Array Sarr :   Array ( [0] => Muhammed Sajid [1] => Abhijith Rajeev [2] => Nived M.C [3] =>
Ananthakrishnan H )
Array Sarr after sort() :   Array ( [0] => Abhijith Rajeev [1] => Ananthakrishnan H [2] => Muhammed Sajid
[3] => Nived M.C )
Array Sarr after asort() :   Array ( [0] => Abhijith Rajeev [1] => Ananthakrishnan H [2] => Muhammed Sajid
[3] => Nived M.C )

```

\*\*\*\*\*

**PROGRAM 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**

```
<!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

\*\*\*\*\*

**PROGRAM 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 CODE****bookinfo.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="http://localhost/~stud/addl.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>

search.html
<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="http://localhost/~stud/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>

/home/stud/public_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';  
}  
$sql="INSERT INTO book85 VALUES($num,'$tit','$author',$sedi,$pub)";  
if($con->query($sql))  
{  
echo '<BR>';  
echo 'New row added';  
}  
else  
{  
echo 'ERROR:could not execute query';  
}  
$con->close();  
?>
```

**/home/stud/public\_html/search1.php**

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

```
echo "connected<br>";  
  
}  
$sql="select * from book85 where title='$title';  
if($result=$con->query($sql))  
  
{  
if($result->num_rows>0)  
{  
while($row=$result->fetch_array())  
{ echo  
"<br>".$row[0].'.'.$row[1].'.'.$row[2].'.'.$row[3].'.'.$row[4]."<br>";}  
$result->close();  
}  
else  
{ echo "<br>Could not found the book"; }  
}  
else  
{ echo "<br>Error:could not connect"; }  
$con->close();  
?>
```

## **OUTPUTS**

**bookinfo.html**

---

**BOOK INFORMATION SYSTEM**

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

add\_book.html

---

**Enter Book Details**

Access Number:

Title:

Author:

Edition:

Publisher:

/home/stud/public\_html/addl.php

connected  
New row added

search.html

---



---

**SEARCH A BOOK**

Enter book title:

/home/stud/public\_html/search1.php

connected

100:Java:Smith:4:Tata

101:Java:Ken:4:S Chand

database(fisatdb)

```

MariaDB [fisatdb]> SELECT * FROM book85;
+-----+-----+-----+-----+-----+
| accno | title | author | edition | publisher |
+-----+-----+-----+-----+-----+
| 100 | Java | Smith | 4 | Tata |
| 101 | Java | Ken | 4 | S Chand |
| 102 | CPP | Alex | 1 | McGill |
| 104 | CPP | Kiran | 5 | McGill |
| 110 | C | Kumar | 12 | McGill |
| 112 | C | Jayraj | 10 | Jaypee |
| 200 | Python | Ken | 12 | Tata |
+-----+-----+-----+-----+-----+
7 rows in set (0.000 sec)

MariaDB [fisatdb]> █

```

\*\*\*\*\*

**PROGRAM 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 CODE****main.html**

```
<html>
<head>
<title>book</title>
</head>
<body align="center"><u>FLIGHT INFORMATION SYSTEM</u><br>
<a href="add.html">Add Details</a><br>
<a href="search_plane.html">Search Flight</a><br>
<a href="search_airline.html">Search Airline</a><br>
</body>
</html>
```

**add.html**

```
<html><head>
<title>add details</title></head>
<body>
<form name="frm1" action="http://localhost/~stud/add_plane.php" method="POST">
<center><b><u>Enter Details</u></b><br>
Flight Number:<input type="text" name="num"><br>
Airline:<input type="text" name="airline"><br>
Source:<input type="text" name="src"><br>
Destination:<input type="text" name="dest"><br>
Date:<input type="text" name="date"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
```



```
</form>
```

```
</body>
```

```
</html>
```

### **search\_airline.html**

```
<html>
```

```
<head>
```

```
<title>search_airline</title>
```

```
</head>
```

```
<body>
```

```
<form name="frm3" action="http://localhost/~stud/search_airline.php"
```

```
method="POST">
```

```
<center>
```

```
<b><u>SEARCH AN AIRLINE</u></b><br>
```

```
Name:<input type="text" name="airline"><br>
```

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

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

```
</center>
```

```
</form>
```

```
</body>
```

```
</html>
```

### **search\_plane.html**

```
<html>
```

```
<head>
```

```
<title>search_plane</title>
```

```
</head>
```

```
<body>
```

```
<form name="frm2" action="http://localhost/~stud/search_plane.php"
```

```
method="POST">
<center>
<b><u>SEARCH A PLANE</u></b><br>
Source:<input type="text" name="src"><br>
Destination:<input type="text" name="dest"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</center>
</form>
</body>
</html>
```

#### **add\_plane.php**

```
<?php
$num=$_POST['num'];
$airline=$_POST['airline'];
$src=$_POST['src'];
$dest=$_POST['dest'];
$date=$_POST['date'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{ echo 'Failed to connect'; }
else
{
echo 'connected';
}
$sql="INSERT INTO flight31 VALUES($num,'$airline','$src','$dest','$date)";
if($con->query($sql))
```

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

### **search\_plane.php**

```
<?php
$src=$_POST['src'];
$dest=$_POST['dest'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo 'Failed to connect';
}
else
{
echo "connected<br>";
}
$sql="select * from flight31 where src='$src' and dest='$dest'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
```

```
{
while($row=$result->fetch_array())
{ echo
"<br>".$row[0].'.'.$row[1].'.'.$row[2].'.'.$row[3].'.'.$row[4]."<br>";}
$result->close();
}else
{ echo "<br>Sorry!!! No service found."; }
}
else
{ echo "<br>Error:could not connect"; }
$con->close();
?>
```

#### **search\_airline.php**

```
<?php
$airline=$_POST['airline'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo 'Failed to connect';
}
else
{
echo "connected<br>";
}
$sql="select * from flight31 where airline='$airline'";
if($result=$con->query($sql))
{
```

```
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo
"<br>".$row[0].'.$row[1].'.$row[2].'.$row[3].'.$row[4]."<br>";}
$result->close();
}else
{ echo "<br>Could not find matches"; }
}
else
{ echo "<br>Error:could not connect"; }
$con->close();
?>
```

## **OUTPUTS**

**main.html**

---

---

**FLIGHT INFORMATION SYSTEM**

[Add Details](#)

[Search Flight](#)

[Search Airline](#)

add.html

---

**Enter Details**

Flight Number:

Airline:

Source:

Destination:

Date:

add\_plane.php

---

connected  
New row added

search\_plane.html

---

**SEARCH A PLANE**

Source:

Destination:

search\_plane.php

connected

100:Air India:New Delhi:Mumbai:11/12/2014

101:Air India:New Delhi:Mumbai:12/12/2014

115:Starlink:New Delhi:Mumbai:14/12/2014

search\_airline.html

---

---

**SEARCH AN AIRLINE**

Name:

search\_airline.php

connected

100:Air India:New Delhi:Mumbai:11/12/2014

101:Air India:New Delhi:Mumbai:12/12/2014

107:Air India:Kannur:Chennai:14/12/2014

110:Air India:Tvm:Mumbai:12/12/2014

## Database(fisatdb)

```
MariaDB [fisatdb]> SELECT * FROM flight31;
```

num	airline	src	dest	date
100	Air India	New Delhi	Mumbai	11/12/2014
101	Air India	New Delhi	Mumbai	12/12/2014
102	Starlink	New Delhi	Chennai	11/12/2014
103	Starlink	Chennai	Cochin	13/12/2014
104	Aster	Mumbai	Kannur	12/12/2014
105	Aster	Cochin	Mumbai	12/12/2014
106	Aster	Cochin	New Delhi	13/12/2014
107	Air India	Kannur	Chennai	14/12/2014
108	Starlink	Chennai	Mumbai	14/12/2014
109	Starlink	Mumbai	Cochin	13/12/2014
110	Air India	Tvm	Mumbai	12/12/2014
111	Air Dubai	Abudabi	Calicut	11/12/2014
112	National Airways	New York	New Delhi	14/12/2014
113	Kingfisher	Tvm	New Delhi	12/12/2014
114	Starlink	Calicut	Chennai	13/12/2014

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

```
MariaDB [fisatdb]> █
```

\*\*\*\*\*