

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

20MCA133 WEB PROGRAMMING LAB

LABORATORY RECORD

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FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

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 **Ms. CHRISTEENA PAUL (FIT21MCA-2048)** in the **20MCA133 WEB PROGRAMMING LAB** Laboratory towards the partial fulfillment 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

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<p>No: 1</p>				

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

Source code

```
<html>

<head>

<title>Native place</title>

</head>

<body><font face="helvetica" size="+2" color="pink" weight="300" text=black>

<h1><center>Anadapuram</h1></center></font>

<p>

<h4 align=center> A small village in<u>Thrissur Dt.,Kerala</u></h4>

<br>

<h2><ol type=1>

<li>Neighbouring villages</li></h2>

<h3><font color="green"><ul type=bullets>

<li>Muriyad</li>

<li>Nellayi</li></ol></h3></font>

<br>

<p><h4>In our village people live together in a harmony. There are
schools,churchs,temples,shops.....etc are in our village</h4></p>

<h2><ol type=A>

<li>Schools</li></h2>

<h3><font color="green"><ul type=circles><li>St.Joseph public School</li>

<li>S.K.H.S.S.Anadapuram</li>

<li>G.U.P.S, Anadapuram</li></ol></h3></ul></font>

<br>

<h3><i>As name indicate people in Anandapuram are led a happy life and they have
a peaceful mind</i></h3>
```

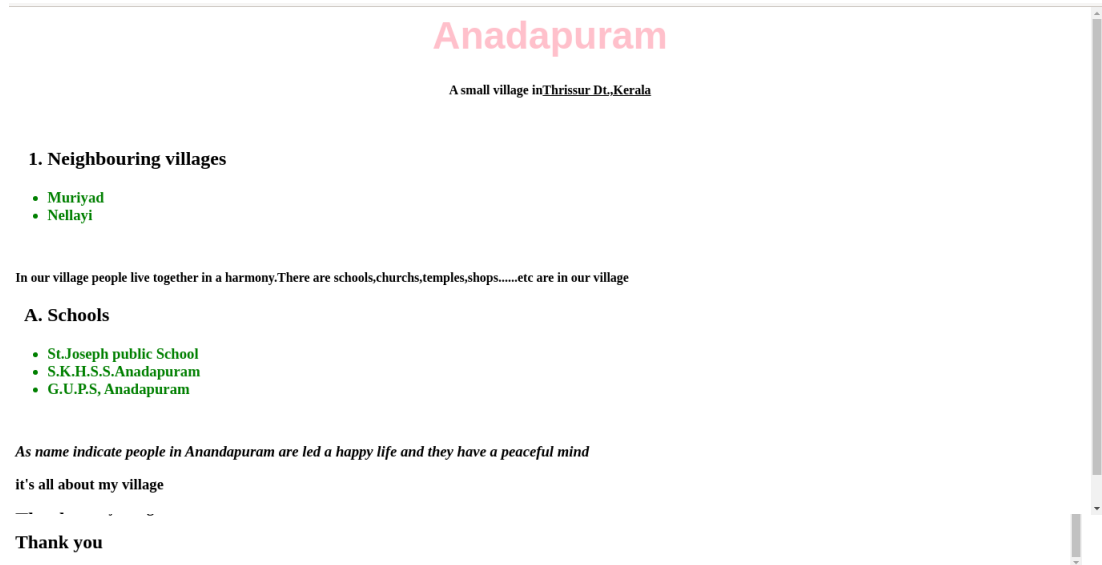
<p><h3>it's all about my village</h3></p>

<h2>Thank you</h2>

</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

Biodata.html

```
<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
1.PERSONAL DETAILS
<hr size=2 noshade>
<br>
<table width=700px>
<tr>
<td>Name</td>
<td>: CHRISTEENA PAUL</td>
</tr>
<tr>
<td>Address</td>
<td>: Ernakulam</td>
</tr>
<tr>
<td>Date of birth</td>
<td>: 29 February 2000</td>
</tr>
<tr>
<td>Age</td>
<td>: 20</td>
</tr>
<tr>
```

```

<td>Gender</td>
<td>: Female</td>
</tr>
<tr>
<td>Contact</td>
<td>: 9747716021</td>
</tr>
<tr>
<td>E mail</td>
<td>: blueeye123@gmail.com</td>
</tr>
</table><br><br>
<button name="Next"><a href="academic.html">Next</a></button>
</body>
</html>

```

Academic.html

```

<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
2.ACADEMIC DETAILS
<hr size=2 noshade></hr>
<table width=700px height=200px border=1>
<tr>
<th>Education</th>
<th>Institution Name</th>
<th>Year of passing</th>
</tr>
<tr>

```



```

<td>SSLC</td>
<td>St.Mary's C G H S Angamaly</td>
<td>2016</td>
</tr>
<tr>
<td>PLUS TWO</td>
<td>Sacred Heart C G H S S Thrissur</td>
<td>2018</td>
</tr>
<tr>
<td>UG</td>
<td>St.Mary's College Thrissur</td>
<td>2021</td>
</tr>
</table><br><br>
<button name="home" value="home"><a href="biodata.html"
nocolor>HOME</a></button>
</body>
</html>

```

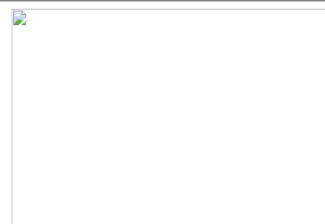
Output

Biodata.html

BIO DATA

1.PERSONAL DETAILS

Name : CHRISTEENA PAUL
 Address : Ernakulam
 Date of birth : 29 February 2000
 Age : 20
 Gender : Female
 Contact : 9747716021
 E mail : blueeye123@gmail.com



[Next](#) | Academic.html

BIO DATA

2.ACADEMIC DETAILS

Education	Institution Name	Year of passing
SSLC	St.Mary's C G H S Angamaly	2016
PLUS TWO	Sacred Heart C G H S S Thrissur	2018
UG	St.Mary's College Thrissur	2021

[HOME](#)

No: 3

Aim:An application form for MCA course in FISAT.

Source code

```
<html>

<head>

<title>Application form</title>

<style>

    label {

        display: inline-block;

        width: 300px;

    }

</style>

</head>

<body>

<center></center><br>

<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>

<hr size=5 noshade></hr>

<h2><center><u>Application Form</u></center></h2><br><br>

<form width="600px" align="left">

<h3><i><u>Basic Details</u></i></h3><br>

<label>Name</label>

<input type="text" name="name" required><br><br><br>

<label>Permanent Address</label>

<textarea cols="20" rows="3" required></textarea><br><br><br>
```


</form>

</form>


</body>

</html>

Output

Application form

file:///C:/Users/Ann mariya T M/Desktop/Ann mariya/MCA/Web/ Application form.html



FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)

Application Form

Basic Details

Name

Permanent Address

City

State

Application form

file:///C:/Users/Ann mariya T M/Desktop/Ann mariya/MCA/Web/ Application form.html

Country

Pincode

Mobile

Alternative Contact Number

Email

Date of birth

Gender ☐ Male ☐ Female

Nationality

Religion Community

Category

Father's Details

Name

Occupation

Mother's Details

Name

Mother's Details

Name

Occupation

Academic Qualifications

Entrance Rank (If available)

Tenth %

Plus Two %

Graduation Course ☐ Bsc ☐ BCA Others:

Degree Percentage

No: 4

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

Source code

Main.html

```
<html>
<head>
<title>Frames</title>
</head>
<frameset rows="150,*">
    <frame name="topF" src="top.html">
<frameset cols="300,*">
<frame name="navF" src="navigation.html">
<frame name="mainF" src="intro.html">
    <frameset rows="75,*">
        <frame src="top.html">
    </frameset>
</frameset>
</html>
```

Navigation.html

```
<html>
<head>
<title>Navigation Bar</title>
</head>
<body align=justify>
<a href="intro.html" target="mainF">Home</a><br><br>
<a href="Course.html" target="mainF">Course</a><br><br>
<a href="about.html" target="mainF">About</a><br><br>
</center>
</body>
</html>
```

Intro.html

```

<html>
<head><title>FISAT</title></head>
<body align="center">

</body>
</html>

```

Course.html

```

<html>
<head>
<title>Courses</title>
</head>
<body>
<h3>Courses Available in FISAT...</h3><br><br>
<table border=2 width=1000 height=400>
<tr><th>Course</th>
<th>Duration</th>
<th>Intake</th>
</tr>
<tr>
<td>B.Tech in Computer Science & Engineering (CSE)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>B.Tech in Electronics & Communication Engineering (ECE)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>

```

```

<td>B.Tech in Civil Engineering (CE)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>B.Tech in Mechanical Engineering (ME)</td>
<td>4 Years</td>
<td>120</td>
</tr>
<tr>
<td>Master of Computer Applications (MCA)</td>
<td>2 Years</td>
<td>120</td>
</tr>
<tr>
<td>Master of Business Administrations (MBA)</td>
<td>2 Years</td>
<td>120</td>
</tr>
</table>
<br><br>
<iframe src="https://fisat.ac.in/pages/profile" width=900 height=300>
</iframe>
</body>
</html>

```

About.html

```

<html>
<head>
<title>Courses</title>
</head>

```

<body width=500 align=center>

<p align=justify><i>Federal Institute of Science And Technology (FISAT)®
</i>is a private self financing Engineering College, established and run by the
Federal Bank Officers Association Educational Society (FBOAES). The
FBOAES is an initiative of the Federal Bank Officers Association (FBOA), the
sole representative body of the entire officers of the Federal Bank.</p>

<p align=justify>Federal Institute of Science And Technology (FISAT) has a
unique position in the Professional Education Sector in South India. With the
motto "Focus on Excellence", FISAT has been designed and developed
to become a `Centre of Excellence` in professional education. Established in the
year 2002, the college has carved a niche for itself in education world, eloquently
demonstrated by the flying colors attained by its students in academics,
placements as well as extra curricular and co curricular activities. FISAT has
embarked on an ambitious plan to enhance the quality and value of education and
develop high quality individuals. The institution is accredited by
NAAC with 'A' Grade. Five B.Tech branches are accredited by
NBA. The institution also received the coveted ISO 9001:2015
certification.</p>

<p align=justify>FISAT is set up at Mookannoor, near Angamaly in Ernakulam
District, Kerala, the birth place of the founder of The Federal Bank Ltd, Late K P
Hormis. To honour the revered memory of the great visionary, the campus of FISAT
is christened 'Hormis Nagar'.</p>

<p align=justify>FISAT is affiliated to Kerala Technological University
(KTU), Mahatma Gandhi University, Kottayam, Kerala and approved by
All India Council for Technical Education (AICTE), New Delhi.</p>

<p align=justify>FISAT conducts six B.Tech courses in Engineering,
MBA programme (with specialization in Finance, Marketing, Human
Resource Management, Information System, Production & Operations Management
and International Business), MCA programme and six M.Tech
courses.</p>

</body>

</html>

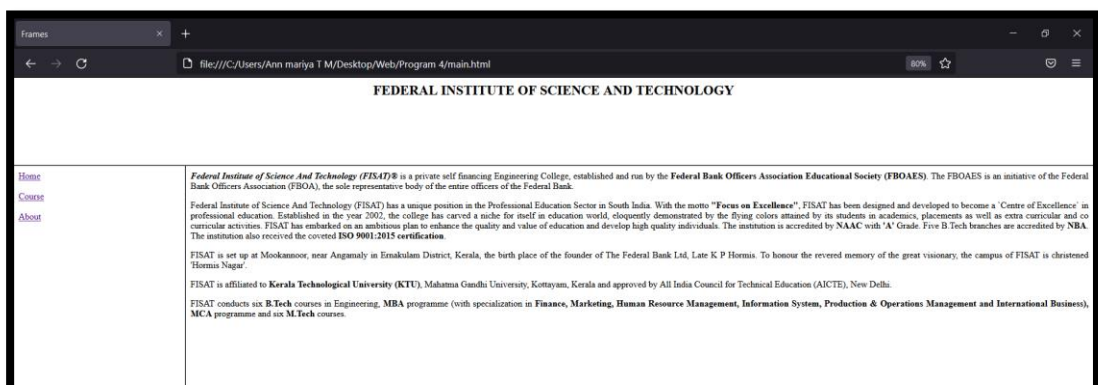
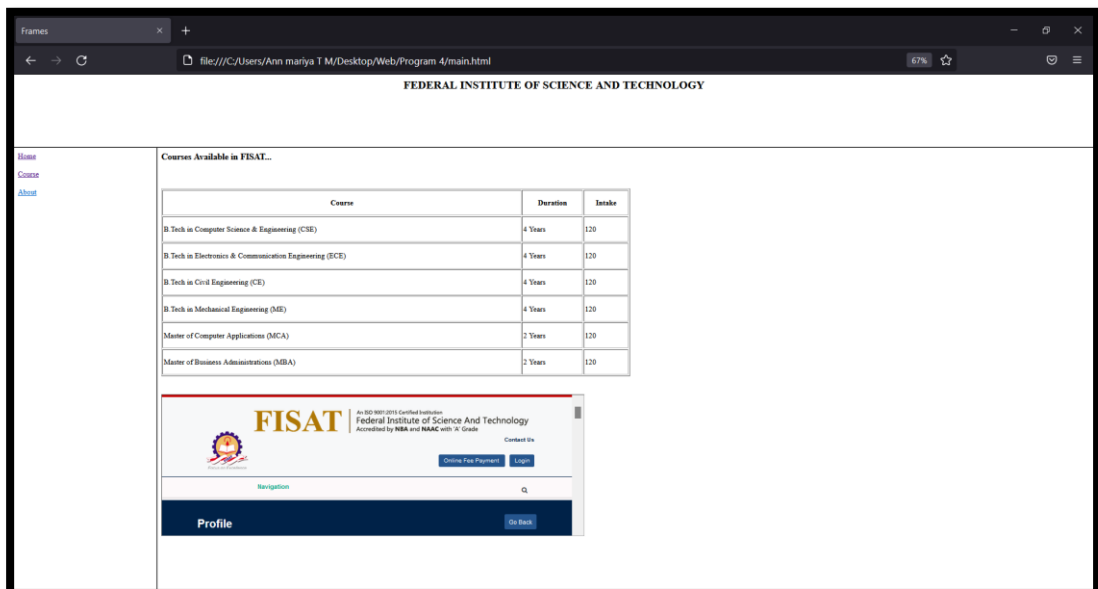
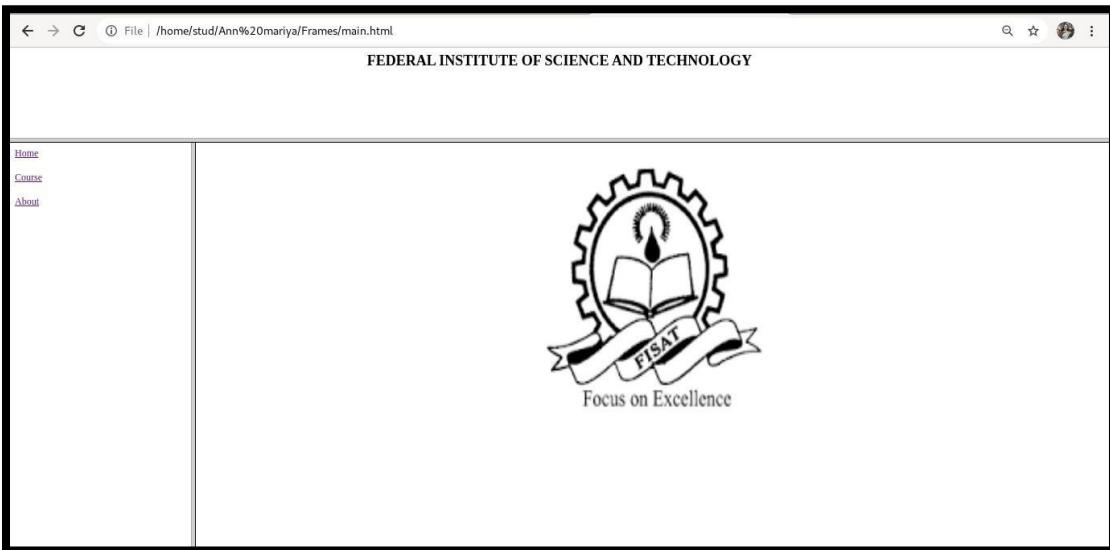
Why_fisat.html

```
<html>
<head>
<title></title>
</head>
<body>
<h2 align=center>Why FISAT??</h2>
<iframe src="https://fisat.ac.in/pages/profile" width=900 height=300>
</iframe>
</body>
</html>
```

Top.html

```
<html>
<head>
<title></title>
</head>
<body>
<h2><center>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY</center></h2>
</body>
</html>
```

Output



No: 5

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

Source codeBiodata.html

```
<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
1.PERSONAL DETAILS
<hr size=2 noshade>
<br>
<table width=700px>
<tr>
<td>Name</td>
<td>: Christeena PaulT M</td>
</tr>
<tr>
<td>
<tr>
<td>Address</td>
<td>: Muyalan</td>
</tr>
<td>Date of birth</td>
<td>: 29 February 2000</td>
</tr>
<tr>
<td>Age</td>
<td>: 20</td>
</tr>
```

```

<tr>
<td>Gender</td>
<td>: Female</td>
</tr>
<tr>
<td>Contact</td>
<td>: 9747716021</td>
</tr>
<tr>
<td>E mail</td>
<td>: mariyatm123@gmail.com</td>
</tr>
</table><br><br>
<button name="Next"><a href="academic.html">Next</a></button>
</body>
</html>

```

Academic.html

```

<html>
<head><title>BIO DATA</title>
</head>
<body>
<h1 align="center">BIO DATA</h1>
<hr size=5 noshade></hr>
2.ACADEMIC DETAILS
<hr size=2 noshade></hr>
<table width=700px height=200px border=1>
<tr>
<th>Education</th>
<th>Institution Name</th>
<th>Year of passing</th>
</tr>

```



```

<tr>
<td>SSLC</td>
<td>St.Mary's C G H S Pongam</td>
<td>2016</td>
</tr>
<tr>
<td>PLUS TWO</td>
<td>Sacred Heart C G H S S Thrissur</td>
<td>2018</td>
</tr>
<tr>
<td>UG</td>
<td>St.Mary's College Thrissur</td>
<td>2021</td>
</tr>
</table><br><br>
<button name="home" value="home"><a href="biodata.html"
nocolor>HOME</a></button>
</body>
</html>

```

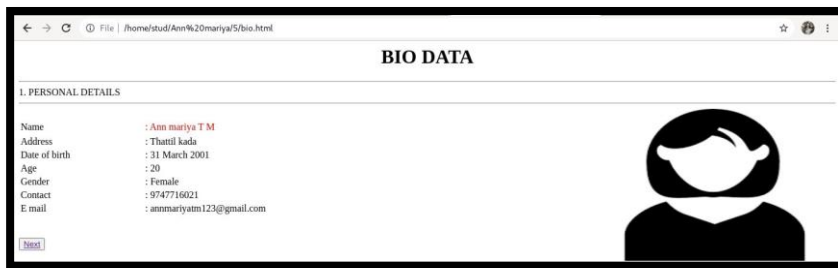
Stylesheet.css

```

.img {src:download.png; height:250px; width:400px;}
.hr1 {size:5 noshade;}
.hr2 {size:2 noshade;}

```

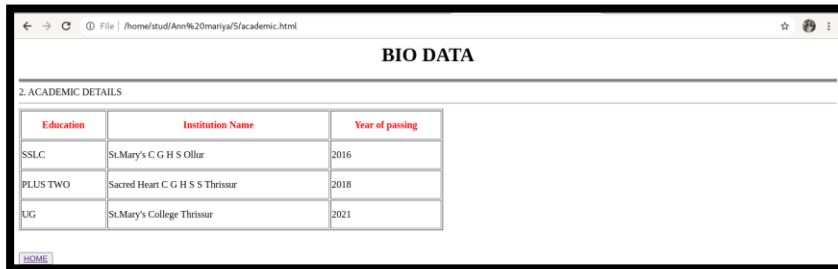
Output



A screenshot of a web browser window displaying a form titled "BIO DATA". The browser's address bar shows the file path: /home/stud/Ann%20maria/5/bio.html. The form is divided into two sections. The first section, "1. PERSONAL DETAILS", contains a list of personal information on the left and a placeholder for a profile picture on the right. The information includes Name, Address, Date of birth, Age, Gender, Contact, and E-mail, each followed by a colon and its value. A "SEND" button is located at the bottom left of the form.

1. PERSONAL DETAILS	
Name	: Ann maria T M
Address	: Thattil kada
Date of birth	: 31 March 2001
Age	: 20
Gender	: Female
Contact	: 9747716021
E mail	: annmariyam123@gmail.com

SEND



A screenshot of a web browser window displaying a form titled "BIO DATA". The browser's address bar shows the file path: /home/stud/Ann%20maria/5/academic.html. The form is divided into two sections. The second section, "2. ACADEMIC DETAILS", contains a table with three columns: Education, Institution Name, and Year of passing. The table lists three educational qualifications: SSLC, PLUS TWO, and UG, along with their respective institutions and the year of passing. A "HOME" button is located at the bottom left of the form.

2. ACADEMIC DETAILS		
Education	Institution Name	Year of passing
SSLC	St.Mary's C G H S Ollur	2016
PLUS TWO	Sacred Heart C G H S S Thrissur	2018
UG	St.Mary's College Thrissur	2021

HOME

No:6

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

Source code

```
<!DOCTYPE html>
<html><head>
<script>
function validateForm() {
var a =
document.forms["myForm"]["fname
"].value; if (a == "") {
alert("Name
must be filled
out"); return
false;
}
var b =
document.forms["myForm"]["add
"].value; if (b == "") {
alert("Address
must be filled
out"); return false;
}
var d =
document.forms["myForm"]["city
"].value; if (d == "") {
alert("City
must be filled
out"); return
false;
}
var e =
document.forms["myForm"]["state
```

```
"].value; if (e == "") {  
    alert("State  
must be filled  
out"); return  
    false;  
}  
var f =  
document.forms["myForm"]["count  
y"].value; if (f == "") {  
    alert("Country  
must be filled  
out"); return false;  
}  
var g =  
document.forms["myForm"]["pin  
"].value; if (g == "") {  
    alert("Pin code  
must be filled  
out"); return false;  
}  
var h =  
document.forms["myForm"]["mob  
"].value; if (h == "") {  
    alert("Mobile  
must be filled  
out"); return  
    false;  
}  
var i =  
document.forms["myForm"]["mai  
l"].value; if (i == "") {  
    alert("Mail
```

```

must be filled
out"); return
false;
}
var j =
document.forms["myForm"]["do
b"].value; if (j == "") {
alert("DOB
must be filled
out"); return
false;
}
}
</script>
<style>
    label {
        display: inline-block;
        width: 300px;} </style>
</head>
<body>
<center></center><br>
<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>
<hr size=5 noshade></hr>
<h2><center><u>Application Form</u></center></h4><br><br>
<form name="myForm"
action="/action_page_post.php"
onsubmit="return validateForm()"
method="post">
<label>Name</label>
<input type="text" name="fname"><br><br><br>
<label>Permanent Address</label>

```

```
<textarea cols="20" rows="3" name="add"></textarea><br><br><br>
```

```
<label>City</label>
```

```
<input type="text" name="city" ><br><br><br>
```

```
<label>State</label>
```

```
<input type="text" name="state"><br><br><br>
```

```
<label>Country</label>
```

```
<input type="text" name="country"><br><br><br>
```

```
<label>Pincode</label>
```

```
<input type="text" name="pin"><br><br><br>
```

```
<label>Mobile</label>
```

```
<input type="number" name="mob"><br><br><br>
```

```
<label>Email</label>
```

```
<input type="email" name="mail"><br><br><br>
```

```
<label>Date of birth </label>
```

```
<input type="date" name="dob"><br><br><br>
```

```
<center><input type="submit" value="Submit"></center>
```

```
</form>
```

```
</body>
```

```
</html>
```

Output

A screenshot of a web browser displaying a form titled "Application Form" for the Federal Institute of Science and Technology (FISAT). The browser's address bar shows the file path: `File | /home/stud/Annmaria/Web%20programming/Program%205/form_validation.html`. The page features the FISAT logo at the top, which includes a gear and a book with the motto "Focus on Excellence". Below the logo, the text "FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)" is displayed. The form itself has the title "Application Form" underlined. It contains five input fields: "Name", "Permanent Address", "City", and "State".

A screenshot of the same web browser displaying the "Application Form" page. A JavaScript validation error message box is overlaid on the form, stating: "This page says Name must be filled out". The message box has an "OK" button. The form fields are now more numerous, including "Country", "Pincode", "Mobile", "Email", and "Date of birth" (with a date picker set to "dd/mm/yyyy"). A "Submit" button is located at the bottom right of 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

```
<!DOCTYPE html>
```

```
<html>
```

```
<body align="center" bgcolor="#83c9f2">
```

```
<h2>JavaScript String Properties</h2>
```

```
-----
```

```
<p>The length of " Today is a beautiful day ":</p>
```

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

```
<script>
```

```
let text = " Today is a beautiful day ";
```

```
document.getElementById("demo").innerHTML = text.length;
```

```
</script>
```

```
-----
```

```
<p>The slice parts of "January, June, July":</p>
```

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

```
<script>
```

```
let str = "January, June, July";
```



```
document.getElementById("de").innerHTML = str.slice(7,13);
```

```
</script>
```

```
<p>The substring of "December, May, April":</p>
```

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

```
<script>
```

```
let str1 = "March, April, October";
```

```
document.getElementById("dem").innerHTML = str1.substring(7,13);
```

```
</script>
```

```
<p>The substr of "March, April, October":</p>
```

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

```
<script>
```

```
let str2 = "Apple, Banana, Kiwi";
```

```
document.getElementById("demo1").innerHTML = str2.substr(7,6);
```

```
</script>
```

```
<p>Replace "Lilly with Jasmin":</p>
```

```
<button onclick="myFunction1()">Try it</button>
```

```
<p id="demo2">Lilly is white in color!</p>
```

```
<script>
```

```
function myFunction1() {
```

```
  let text1 = document.getElementById("demo2").innerHTML;
```

```
document.getElementById("demo2").innerHTML =  
text1.replace("Lilly","Jasmin");  
}  
</script>
```

```
<p>Convert Red Rose to upper case:</p>  
<button onclick="myFunction2()">Try it</button>  
<p id="demo3">Red Rose</p>  
<script>  
function myFunction2() {  
  let text2 = document.getElementById("demo3").innerHTML;  
  document.getElementById("demo3").innerHTML =  
    text2.toUpperCase();  
}  
</script>
```

```
<p>Convert Red Rose to lower case:</p>  
<button onclick="myFunction3()">Try it</button>  
<p id="demo4">Red Rose</p>  
<script>  
function myFunction3() {  
  let text3 = document.getElementById("demo4").innerHTML;  
  document.getElementById("demo4").innerHTML =
```

```
text3.toLowerCase();

}

</script>

-----

<p>Concat "Red Rose"</p>

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

<script>

let text4 = "Red";

let text5 = "Rose";

let text6 = text4.concat(" ",text5);

document.getElementById("demo5").innerHTML = text6;

</script>

-----

<p>Trim "Red Rose"</p>

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

<script>

let text7 = "  Red Rose  ";

let text8 = text7.trim();

document.getElementById("demo6").innerHTML =

"Length text7=" + text7.length + "<br>Length8 text8=" + text8.length;

</script>

-----

<p>CharAt "Red Rose"</p>
```

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

```
<script>
```

```
var text9 = "RED ROSE";
```

```
document.getElementById("demo7").innerHTML = text9.charAt(0);
```

```
</script>
```

<p>Display the first array element, after a string split:</p>

```
<p id="demo8"></p>
```

```
<script>
```

```
let text10 = "a,b,c,d,e,f";
```

```
const myArray = text10.split(",");
```

```
document.getElementById("demo8").innerHTML = myArray[0];
```

```
</script>
```

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

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

```
<script>
```

```
let str3 = "Please locate where 'locate' occurs!";
```

```
document.getElementById("demo9").innerHTML = str3.indexOf("locate");
```

```
</script>
```

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

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

```
<script>
```

```
let str4 = "Please locate where 'locate' occurs!";
```

```
document.getElementById("demo10").innerHTML = str4.search("locate");
```

```
</script>
```

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

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

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

```
<script>
```

```
let text11 = "Hello world, welcome to the universe.";
```

```
document.getElementById("demo11").innerHTML = text11.includes("world");
```

```
</script>
```

```
<h2>Javascript Math Functions</h2>
```

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

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

```
<script>
```

```
document.getElementById("demo12").innerHTML = Math.round(4.5);
```

```
</script>
```

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

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

```
<script>
```

```
document.getElementById("demo13").innerHTML = Math.ceil(4.4);
```

```
</script>
```

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

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

```
<script>
```

```
document.getElementById("demo14").innerHTML = Math.floor(4.7);
```

```
</script>
```

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

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

```
<script>
```

```
document.getElementById("demo15").innerHTML = Math.trunc(4.7);
```

```
</script>
```

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

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

```
<script>
```

```
document.getElementById("demo16").innerHTML = Math.sign(4);
```

```
</script>
```

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

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

<script>

document.getElementById("demo17").innerHTML = Math.pow(8,2);

</script>

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

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

<script>

document.getElementById("demo18").innerHTML = Math.sqrt(64);

</script>

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

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

<script>

document.getElementById("demo19").innerHTML = Math.abs(-4.4);

</script>

<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="demo20"></p>

<script>

```
document.getElementById("demo20").innerHTML =  
  
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);  
  
</script>  
  
-----  
  
<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="demo21"></p>  
  
<script>  
  
document.getElementById("demo21").innerHTML =  
  
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);  
  
</script>  
  
-----  
  
<p>Math.min() returns the lowest value in a list of arguments:</p>  
  
<p id="demo22"></p>  
  
<script>  
  
document.getElementById("demo22").innerHTML =  
  
Math.min(0, 150, 30, 20, -8, -200);  
  
</script>  
  
-----  
  
<p>Math.max() returns the highest value in a list of arguments.</p>  
  
<p id="demo23"></p>  
  
<script>  
  
document.getElementById("demo23").innerHTML =
```



```
Math.max(0, 150, 30, 20, -8, -200);
```

```
</script>
```

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

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

```
<script>
```

```
document.getElementById("demo24").innerHTML = Math.random();
```

```
</script>
```

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

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

```
<script>
```

```
document.getElementById("demo25").innerHTML = Math.log(1);
```

```
</script>
```

```
-----  
</body>
```

```
</html>
```

Output

JavaScript String Properties

The length property returns the length of a string:

14

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

Antony

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

Antony

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

Agnus

Replace "my" with "our" in the paragraph below:

India is my country

Convert string to upper case:

Hi Friends!

Convert string to lower case:

Hi Friends!

Hi Friends!

The concat() method joins two or more strings:

Good Morning!

The trim() Method

Length t1=16

Length2 t2=12

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

M

Display the first array element, after a string split:

c

The indexOf() Method

indexOf() returns the position of the first occurrence of a specified value in a string.

Find "welcome":

12

The search() Method

search() searches a string for a value and returns the position of the match:

14

The includes() Method

includes() returns true if a string contains a specified string.

Find "Good":

includes() is not supported in Internet Explorer 11 (or earlier).

JavaScript Math

Math.round() rounds a number to the nearest integer:

3

The Math.ceil() Method

Math.ceil() rounds a number UP to the nearest integer:

2

The Math.floor () Method

Math.floor() rounds a number DOWN to the nearest integer:

1

Math.trunc

Math.trunc() returns the integer part of a number:

8

Math.sign

Math.sign() returns whether a number is negative, positive or zero:

-1

Math.now**Math.pow**

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

64

Math.abs

Math.abs() returns the absolute value of a number:

7.25

Math.sqrt

Math.sqrt() returns the square root of a number:

3

Math.sin

Math.sin() returns the sine of a number:

0.1411200080598672

Math.cos

Math.cos() returns the cosine of a number:

-0.9899924966004454

Math.min()

Math.min() returns the number with the lowest value:

3

Math.max()

Math.max() returns the number with the highest value:

10

Math.random

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

1.7039254881949968

Math.log

Math.log() returns the natural logarithm (base E) of a number:

1.6931471805599453

No:8

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

Source 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");

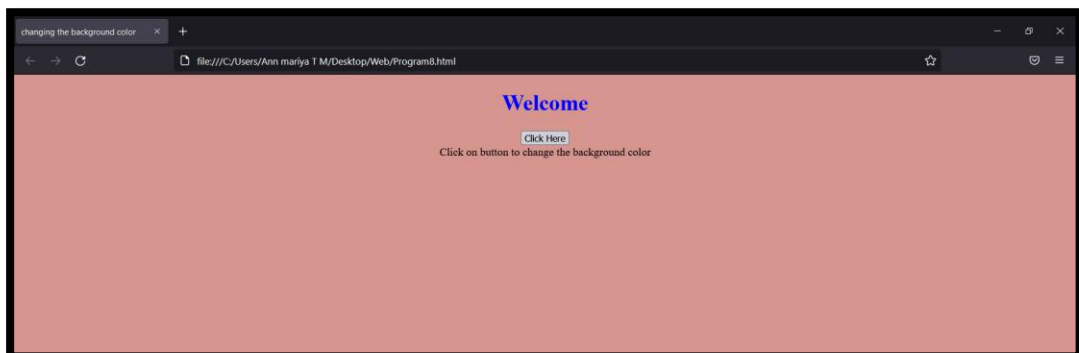
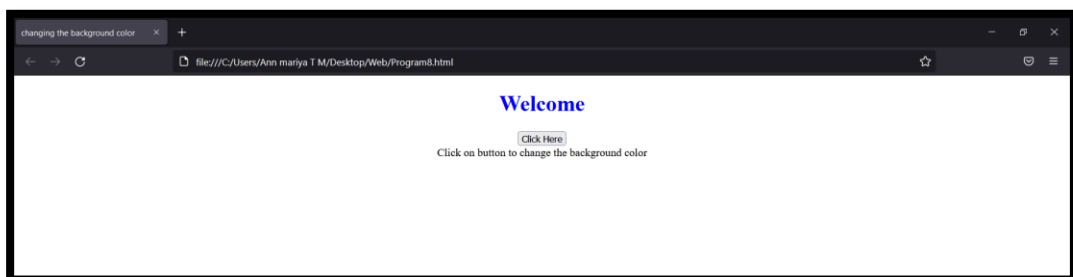
function changeBg()

{

let color = '#'+(Math.random()*0xFFFFFFFF<<0).toString(16);
```

```
pageBody.style.background = color;  
  
}  
  
</script>  
  
</body>  
  
</html>
```

Output



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: #5ddedc;

}

</style></head>

<body>

<b>CALENDAR</b><br><br>

Enter The year : <input type="number" name="cal" id="cal" /><br><br>
```

```

Enter The Month: <input type="number" name="month" id="month" /><br><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</t
h><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

file:///C:/Users/Ann mariya T M/Desktop/Web/Program9.html

CALENDAR

Enter The year :

Enter The Month:

MON	TUE	WED	THU	FRI	SAT	SUN
*	*	*	*	*	*	*

Calendar

file:///C:/Users/Ann mariya T M/Desktop/Web/Program9.html

CALENDAR

Enter The year : 2022

Enter The Month: 3

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	*	*	*

No:10

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

Source code

Electricity.html

```
<html>

<head><title>Electricity bill</title></head>

<body>

<form name="bill" action="bill.php" method="post">

<h1>ELECTRICITY BILL<hr></h1>

Consumer Number: <input type="number" name="cno"><br><br>

Customer name: <input type="text" name="uname"><br><br>

Unit: <input type="number" name="unit"><br><br>

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

</form>

</body>

</html>
```

Bill.php

```
<html>

<head><title>Bill</title></head>

<body>

<h1>Electricity Bill</h1><br>

<table border="1">
```

```

<tr>

<td>

<h3>Name :<?php echo $_POST["uname"];?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Consumer number :<?php echo $_POST["cno"];?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Price/Unit :<?php $p=4; echo $p;?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Unit :<?php echo $_POST["unit"];?></h3><br>

</td>

</tr>

<tr>

<td>

<h3>Amount :<?php echo $_POST["unit"]*4;?></h3><br>

```

</td>

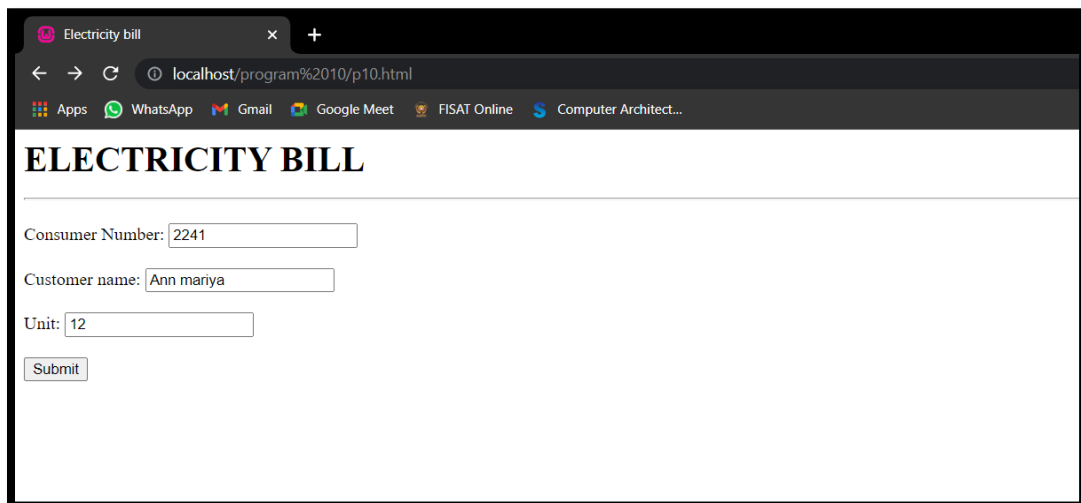
</tr>

</table>

</body>

</html>

Output



Electricity bill

localhost/program%2010/p10.html

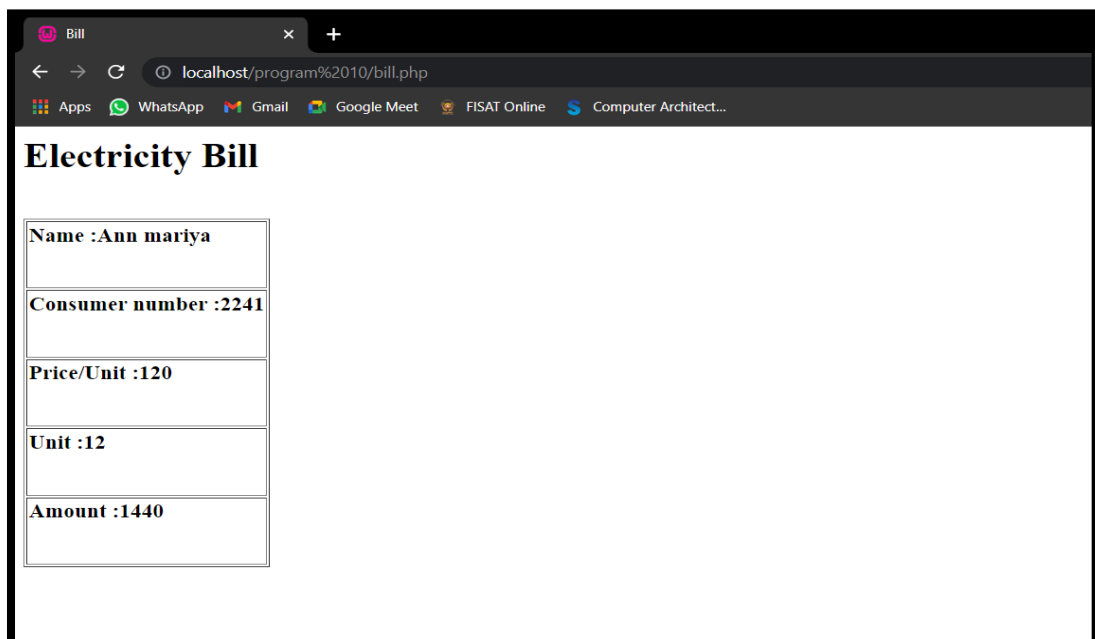
Apps WhatsApp Gmail Google Meet FISAT Online Computer Architect...

ELECTRICITY BILL

Consumer Number:

Customer name:

Unit:



Bill

localhost/program%2010/bill.php

Apps WhatsApp Gmail Google Meet FISAT Online Computer Architect...

Electricity Bill

Name :Ann mariya
Consumer number :2241
Price/Unit :120
Unit :12
Amount :1440

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 assort & arsort functions.

Source codeP11.html

```
<!DOCTYPE html>

<html>

<body>

<h2>Students Name: </h2>

<?php

$a = array("Angel"=>"34", "Ann"=>"35", "Sree"=>"23", "Anz"=>"11", "Anju"=>"9");

print_r($a);

echo "<h2>Ascending Order</h2>";

echo "\n";

asort($a);

foreach($a as $x=>$x_value)

{

echo "Key=" . $x . ", Value=" . $x_value;

echo "<br>";

}

echo "\n";

echo "<h2>Descending Order</h2>";

echo "\n";

arsort($a);
```

```
foreach($a as $x=>$x_value)
```

```
{
```

```
echo "Key=" . $x . ", Value=" . $x_value;
```

```
echo "<br>";
```

```
}
```

```
?>
```

```
</html>
```

P11.php

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>Students Name: </h2>
```

```
<?php
```

```
$a = array("Angel"=>"34", "Ann"=>"35", "Sree"=>"23", "Anz"=>"11", "Anju"=>"9");
```

```
print_r($a);
```

```
echo "<h2>Ascending Order</h2>";
```

```
echo "\n";
```

```
asort($a);
```

```
foreach($a as $x=>$x_value)
```

```
{
```

```
echo "Key=" . $x . ", Value=" . $x_value;
```

```
echo "<br>";
```

```
}
```

```

echo "\n";

echo "<h2>Descending Order</h2>";

echo "\n";

arsort($a);

foreach($a as $x=>$x_value)

{

echo "Key=" . $x . ", Value=" . $x_value;

echo "<br>";

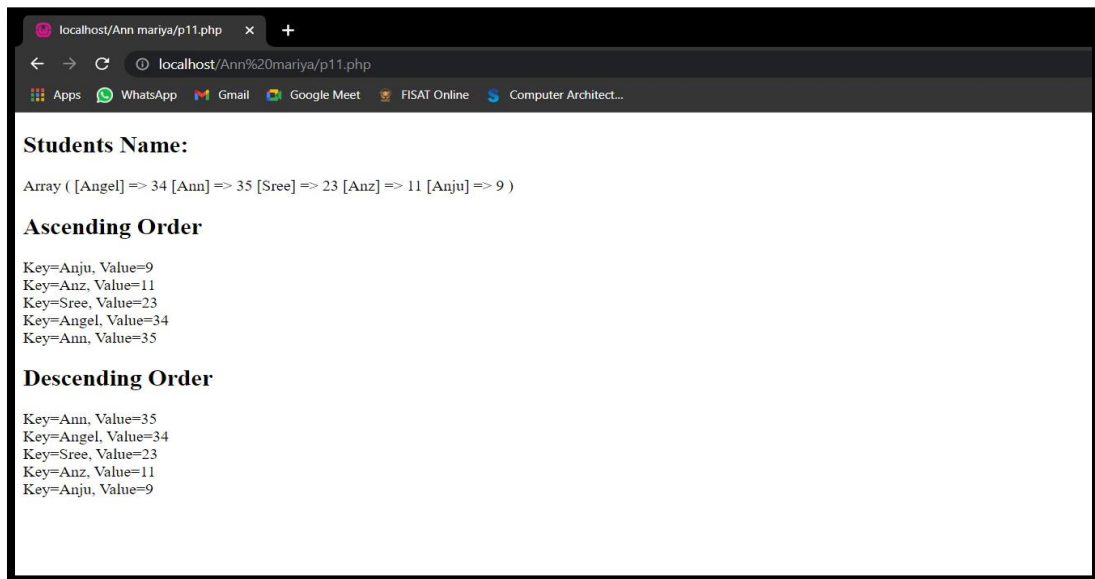
}

?>

</html>

```

Output



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

```
<!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

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 heading

Source code**bookinginfo.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="addl.php" method="POST">
<center><b><u>Enter Book Details</u></b><br>
Access number:<input type="number" name="num"><br>
Title:<input type="text" name="tit"><br>
Author:<input type="text" name="author"><br>
Edition:<input type="number" name="edi"><br>
Publisher:<input type="text" name="pub"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
```

```
</html>

addl.php

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

search.html

```

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

```

searchl.html

```

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

BOOK INFORMATION SYSTEM
[Add Book](#)
[Search Book](#)

Enter Book Details

Access number: 56

Title: antoparl

Author: anthony

Edition: 5

Publisher: 2018

Submit Query Reset

rch.html

SEARCH A BOOK

Enter book title: thomasonland

Submit Query

connected 2:thomasonland:tom:2:deepaka

```

stud@debian: ~
stud@debian:~$ mysql -u fisat -p
Enter password:
ERROR 1045 (28000): Access denied for user 'fisat'@'localhost' (using password:
YES)
stud@debian:~$ mysql -u fisat -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.5.11-MariaDB-1 Debian 11

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use fisatdb
Database changed
MariaDB [fisatdb]> create table book;
ERROR 1113 (42000): A table must have at least 1 column
MariaDB [fisatdb]> create table book(accession number int not null primary key a
uto increment,title varchar(20) not null,author varchar(20) not null,edition int
not null ,publisher varchar(20)not null);
Query OK, 0 rows affected (0.182 sec)

MariaDB [fisatdb]> desc book;

```

```

stud@debian: ~
+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| accession_number | int(11)   | NO   | PRI | NULL    | auto_increment |
| title           | varchar(20) | NO   |     | NULL    |                |
| author          | varchar(20) | NO   |     | NULL    |                |
| edition         | int(11)   | NO   |     | NULL    |                |
| publisher       | varchar(20) | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.002 sec)

MariaDB [fisatdb]> select * from Book;
ERROR 1146 (42502): Table 'fisatdb.Book' doesn't exist
MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title      | author      | edition | publisher |
+-----+-----+-----+-----+-----+
| 1022            | Alchemist | Paulo Choelo | 2018    | DC Books  |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title      | author      | edition | publisher |
+-----+-----+-----+-----+-----+

```

No:14

Aim:

Source 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();  
}  
{ echo '\nCould not found the airline'; }  
}  
else  
{ echo '\nError:could not connect'; }  
$con->close();  
?>
```

Output**AIRLINE INFORMATION SYSTEM**

S

Add AIRLINE DETAILSSearch AIRLINE DETAILS**Enter Airline Details**

AIRLINE ID: 23

AIRLINE NAME: airindia

DEPARTURE FROM: ernakulam

DEPARTURE TIME: 10

AIRIVAL TIME: 1

AIRIVAL PLACE: mumbai

Submit Query Reset

connected
New row added

SEARCH AIRLINE

DEPARTURE FROM: ernakulam

ARIVAL PLACE: mumbai

Submit Query

```

MariaDB [fisatdb]> create table airline(airline_id int primary key auto_increment,airline_name varchar(20) not null,depfrom varchar(20)
,deptime varchar(20),airtime varchar(20),airplace varchar(20));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right
syntax to use near 'airline_name varchar(20) not null,depfrom varchar(20),deptime varchar(20),air...' at line 1
MariaDB [fisatdb]> create table airline(airline_id int not null primary key auto_increment,airline_name varchar(20) not null,depfrom var
char(20)not null,deptime
varchar(20)not null,airtime varchar(20)not null,airplace varchar(20)not null);
Query OK, 0 rows affected (0.164 sec)

```

```

MariaDB [fisatdb]> desc airline;
ERROR 1146 (42582): Table 'fisatdb.airline' doesn't exist
MariaDB [fisatdb]> desc airline;

```

Field	Type	Null	Key	Default	Extra
airline_id	int(11)	NO	PRI	NULL	auto_increment
airline_name	varchar(20)	NO		NULL	
depfrom	varchar(20)	NO		NULL	
deptime	varchar(20)	NO		NULL	
airtime	varchar(20)	NO		NULL	
airplace	varchar(20)	NO		NULL	

6 rows in set (0.001 sec)

```

MariaDB [fisatdb]> select * from airline;

```

airline_id	airline_name	depfrom	deptime	airtime	airplace
22	airindia	ernakulam	10	2	mumbai
25	airindia	kochi	10	1	delhi

2 rows in set (0.000 sec)

```

MariaDB [fisatdb]>

```