

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)TM

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ANGAMALY-683577



'FOCUS ON EXCELLENCE'

LABORATORY RECORD

20MCA133 - WEB PROGRAMMING LAB

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Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: 2021 A Roll No: 20

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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
ANANTHAKRISHNAN H (FIT21MCA-2020) in the **20MCA135 DATA
STRUCTURES 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

Signature of H.O.D

Name:

Name:

Date:

Date of University practical examination

Signature of

Signature of

Internal Examiner

External Examiner

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No: 1

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

Source code

```
<html>
<head>
<title> My Native Place</title>
</head>
<body>
<h1><center><font
color="green"><em>MALAYALAPUZHA</em></font></center></h1>

<h2><center>PATHANAMTHITTA</center></h2>
<p><h3>Pathanamthitta is a municipality situated in the Central Travancore region in
the state of Kerala, India, spread over an area of 23.50 km2. It is the administrative
capital of Pathanamthitta district. The town has a population of 37,538. The Hindu
pilgrim centre Sabarimala is situated in the Pathanamthitta district; as the main
transport hub to Sabarimala, the town is known as the 'Pilgrim Capital of Kerala'.[3]
Pathanamthitta District, the thirteenth revenue district of the State of Kerala, was
formed with effect from 1 November 1982, with headquarters at Pathanamthitta.
Forest covers more than half of the total area of the District. The regions that form the
town were formerly under the rule of Pandalam, which had connections with the
Pandya kingdom. It is believed that Hindu God Lord Ayyappa was the King of this
region.[4] When Pandalam was added to the princely state of Travancore in 1820, the
region came under Travancore administration.</h3></p>

<p><h3>Modern day Pathanamthitta District, the thirteenth revenue district of the
State of Kerala was formed with effect from 1 November 1982, with headquarters at
Pathanamthitta. It was formed due to the efforts made by Indian politician K. K. Nair.
He is known as the founder of Pathanamthitta District.

Pathanamthitta District ranks the 7th in area in the State. The district has its borders
with Kottayam, Kollam and Idukki districts of Kerala and Tamil Nadu. Pathanamthitta
has a moderate climate, more or less the same as is prevalent elsewhere in Kerala.
Annual temperatures range between 20 °C (68 °F) and 39 °C (102 °F). The district
experiences three distinct weather conditions: winter, summer and the monsoon. The
winter season is experienced from December to February and summer season from
March to May. There are two rainy seasons: The South-West monsoon (June to
September) and the North-East monsoon (October to November). The South-West
monsoon is usually very heavy. About 75% of its annual rainfall is received during
this season.</h3></p>

<center></center>

<a href="file:///home/ccf/Ananthu html/route.html">Click to Explore</a>

<p><h3>The town enjoys a tropical climate, the monsoons start in June.[6] The
months of April–May can get pretty humid. The best weather is from October to
February.
```

Pathanamthitta experiences three distinct seasons: summer, monsoon and winter. Typical summer months are from March to May. The warmest month in Pathanamthitta is April. Although summer doesn't end until May, the city often receives locally developed heavy thundershowers in May (although humidity remains high).

The monsoon lasts from June to August, with moderate rainfall. Most of the heavy rainfall in the city falls between June and July, and June is the wettest month of the year. The Last weeks of June is also days of floods. The three major rivers viz Pampa, Achankovil and Manimala swell with rainwater.[7]

Winter begins in December. December through February are the winter months. The lowest temperatures are experienced during January.

According to the latest World Health Organisation (WHO) study on ambient air quality among 123 Indian cities, Pathanamthitta was found to have the cleanest air in India, in terms of least concentration of dust particles in air[citation needed]. Two out of the three least polluted cities in India are from Kerala, Kollam being the second least polluted. As per the database, in Pathanamthitta, the annual mean of PM10 and PM2.5 is recorded at 23 and 10 respectively, which is closer to the recommended level of concentration of particulate matter. While a number of Indian cities are among the world's most polluted, Pathanamthitta's air quality is comparable to some of the cleanest cities in North America, Europe and Australia.[citation needed]Malayalapuzha is a beautiful village in Pathanamthitta.Malayalapuzha is famous for Malayalapuzha Devi Temple.It is a village which is naturally flourished environment.Pathanamthitta is one of the districts which has the most beautiful nature.It is famous for the purity of air.Cultivations of our native village are

Rubber

Ginger

Pepper</h3></p>

</body>

</html>

Output

MALAYALAPUZHA

PATHANAMTHITTA

Pathanamthitta is a municipality situated in the Central Travancore region in the state of Kerala, India, spread over an area of 23.58 km². It is the administrative capital of Pathanamthitta district. The town has a population of 37,538. The Hindu pilgrim centre Saharimala is situated in the Pathanamthitta district, as the main transport hub to Saharimala, the town is known as the 'Pilgrim Capital of Kerala'. [1] Pathanamthitta District, the thiruvorwari revenue district of the State of Kerala, was formed with effect from 1 November 1962, with headquarters at Pathanamthitta. Forest covers more than half of the total area of the District. The regions that form the town were formerly under the rule of Pandalam, which had connections with the Pandya kingdom. It is believed that Hindu God Lord Venkateswara was the king of this region. [4] When Pandalam was added to the princely state of Travancore in 1828, the region came under Travancore administration.

Modern day Pathanamthitta District, the thiruvorwari revenue district of the State of Kerala was formed with effect from 1 November 1962, with headquarters at Pathanamthitta. It was formed due to the efforts made by Indian politician K. S. Nair. He is known as the founder of Pathanamthitta District. Pathanamthitta District ranks the 7th in area in the State. The district has its borders with Kottayam, Kollam and Idukki districts of Kerala and Tamil Nadu. Pathanamthitta has a moderate climate, more or less the same as is prevalent elsewhere in Kerala. Annual temperatures range between 20 °C (68 °F) and 30 °C (86 °F). The district experiences three distinct weather conditions: winter, summer and the monsoon. The winter season is experienced from December to February and summer season from March to May. There are two rainy seasons: The South-West monsoon (June to September) and the North-East monsoon (October to November). The South-West monsoon is usually very heavy. About 75% of its annual rainfall is received during this season.



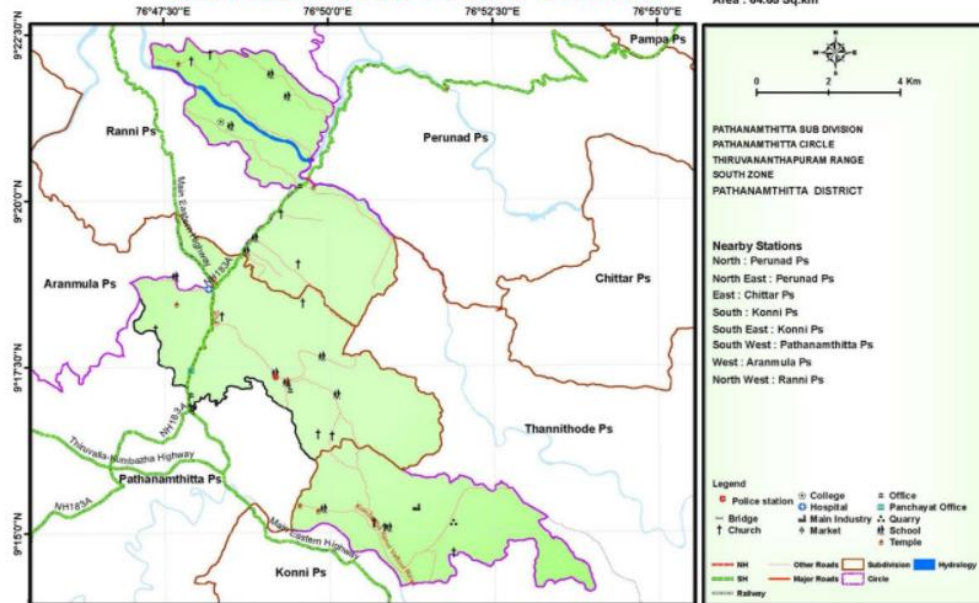
[Path to India](#)

The town enjoys a tropical climate, the monsoons start in June. [4] The months of April-May can get pretty humid. The best weather is from October to February. Pathanamthitta experiences three distinct seasons: summer, monsoon and winter. Typical summer months are from March to May. The warmest month in Pathanamthitta is April. Although summer doesn't end until May, the city often receives locally developed heavy thunderstorms in May (although humidity remains high). The monsoon lasts from June to August, with moderate rainfall. Most of the heavy rainfall in the city falls between June and July, and June is the wettest month of the year. The last weeks of June is also days of floods. The three major rivers viz Pamba, Achankovil and Manimala itself with rainwater. [7] Winter begins in December. December through February are the winter months. The lowest temperatures are experienced during January. According to the latest World Health Organisation (WHO) study on ambient air quality among 123 Indian cities, Pathanamthitta was found to have the cleanest air in India, in terms of least concentration of dust particles in air (dust per cubic meter). Two out of the three least polluted cities in India are from Kerala, Kollam being the second least polluted. As per the database, in Pathanamthitta, the annual mean of PM10 and PM2.5 is recorded at 23 and 10 respectively, which is closer to the recommended level of concentration of particulate matter. While a number of Indian cities are among the world's most polluted, Pathanamthitta's air quality is comparable to some of the cleanest cities in North America, Europe and Australia (citation needed). Malayalappuzha is a beautiful village in Pathanamthitta. Malayalappuzha is famous for Malayalappuzha Iyem Temple. It is a village which is naturally beautiful environment. Pathanamthitta is one of the districts which has the most beautiful nature. It is famous for the purity of air. Cultivations of our native villages are:

- Rubber
- Ginger
- Pepper

POLICE JURISDICTION MAP MALAYALAPUZHA POLICE STATION

Latitude : 9°14'8.13" - 9°22'26.62"
Longitude : 76°46'58.52" - 76°54'1.24"
Area : 64.65 Sq.km



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 color elements. The design should contain a minimum of 3 hyperlinks

Source code

```
<html>
<head>
<title>Contact Details</title>
</head>
<body bgcolor="lightblue">
<table width="800" border="1" align="center" cellpadding="5">
<tr>
<td colspan="2">Contact Details<hr/></td>
</tr>
<tr>
<td align="right" valign="top">Address:</td>
<td>Eravimangalathu Illam</br>
Malayalapuzha Thazham P.O</br>
Pathanamthitta</td>
</tr>
<tr>
<td align="right" valign="top">Phone Number:</td>
<td>(M)8157016439</br>
</td>
</tr>
<tr>
<td align="right">Email Address:</td>
<td>ananthuh2000@gmail.com</td>
</tr>
<a href="file:///home/stud/Downloads/education.html">Click to see education
details</a>
</table>
```



```
</body>
```

```
</html>
```

CONTACT

```
<html>
```

```
<head>
```

```
<title>Contact Details</title>
```

```
</head>
```

```
<body bgcolor="lightblue">
```

```
<table width="800" border="1" align="center" cellpadding="5">
```

```
<tr>
```

```
<td colspan="2">Contact Details<hr/></td>
```

```
</tr>
```

```
<tr>
```

```
<td align="right" valign="top">Address:</td>
```

```
<td>Eravimangalathu Illam</br>
```

```
Malayalapuzha Thazham P.O</br>
```

```
Pathanamthitta</td>
```

```
</tr>
```

```
<tr>
```

```
<td align="right" valign="top">Phone Number:</td>
```

```
<td>(M)8157016439</br>
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td align="right">Email Address:</td>
```

```
<td>ananthuh2000@gmail.com</td>
```

```
</tr>
```

```
<a href="file:///home/stud/Downloads/education.html">Click to see education  
details</a>
```

```
</table>
```

```
</body>
```

```
</html>
```

EDUCATION

```

<html>
<head>
<title>Education</title>

</head>
<body bgcolor="lightblue">
<table width="800" border="1" align="center" cellpadding="5">
<tr>
<td colspan="2">Education & Knowledge<hr/></td>
</tr>
<tr>
<td align="right">Language:</td>
<td>English, Malayalam</td>
</tr><tr>
<td align="right">Education:</td>
<td>BSc.Physics</td>
</tr>
<tr>
<td align="right">Hobbies:</td>
<td>Computer, Cricket, Gaming</td>
</tr>

<tr>
<td colspan="2">About Me<hr/></td>
</tr>
<tr>
<td colspan="2">I am a hard working person.Game Designing is my
passion.I like to try my best for everything i do.<hr/></td>
</tr>
</table>
</body>
</html>


```

Output

← → ↻ File | /home/stud/Downloads/biodataananthu.html

Apps Gmail

BIODATA



[Click to see contact details](#)

Basic Info	
Full Name:	ANANTHAKRISHNAN H
Father's Name:	HARIKUTTAN NAMPOOTHIRY V
Age:	21 Years
Date of Birth:	18 th November 2000
Nationality:	Indian

← → ↻ File | /home/stud/Downloads/contact.html

Apps Gmail

[Click to see education details](#)

Contact Details	
Address:	Eravimangalathu Illam Malayalapuzha Thazham P.O Pathanamthitta
Phone Number:	(M)8157016439
Email Address:	ananthuh2000@gmail.com

← → ↻ File | /home/stud/Downloads/education.html

Apps Gmail

Education & Knowledge	
Language:	English, Malayalam
Education:	BSc.Physics
Hobbies:	Computer, Cricket, Gaming
About Me	
I am a hard working person.Game Designing is my passion.I like to try my best for everything i do.	

No: 3

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

Source code

```
<html>

<head>

<title>Forms</title>

</head>

<body bgcolor="skyblue">

<h1><center>FISAT ADMISSION 2021-22</center></h1>

<h3><center><marquee><font color="red">REGISTRATIONS OPEN

</font></marquee></center></h3>

<h3><center>MCA Regular Online Enquiry Form</center></h3>

<center></center><br><br><br><br>

<form method="post"></form>
```

NAME:

```
<input type="text" name="NAME" size="20"><br> <br> <br>

<br>
```

AGE:

```
<input type="text" name="NAME" size="20"><br> <br> <br>

<br>
```

DOB:

```
<input type="date" name="NAME" size="20"><br> <br> <br>
```


GENDER:

<input type="radio" name="NAME" value="male">MALE

<input type="radio" name="NAME" value="female">FEMALE

<input type="radio" name="NAME" value="others">OTHERS

CONTACT DETAILS:

<input type="text" name="NAME" size="20">

EMAIL ID:

<input type="text" name="NAME" size="20">

ADDRESS:

<textarea cols="70" rows="5"

name="Address"></textarea>

ADMISSION QUOTA:

<select>

<option>MERIT ALLOTMENT

<option>MANAGEMENT QUOTA FROM RANKLIST


<OPTION>MANAGEMENT QUOTA

<center><input type="submit" name="submit"></center>

<center><input type="reset" name="reset"></center>

Output

The screenshot displays a web browser window with the address bar showing the file path: `File | /home/stud/ananthu/Web620Programming/forms.html`. The browser's top bar includes icons for 'Apps' and 'Gmail', and a 'Read' button on the right. The main content area has a light blue background and features the following elements:

- FISAT ADMISSION 2021-22**: The main title of the page.
- REGISTRATIONS OPEN**: A red text announcement.
- MCA Regular Online Enquiry Form**: The subtitle of the form.
- : The logo of the Federal Institute of Science and Technology, featuring a gear and a book.
- NAME:** A text input field.
- AGE:** A text input field.
- DOB:** A date picker set to `dd/mm/yyyy`.
- GENDER:** Radio buttons for `MALE`, `FEMALE`, and `OTHERS`.
- CONTACT DETAILS:** A text input field.
- EMAIL ID:** A text input field.
- ADDRESS:** A large text area for the address.
- ADMISSION QUOTA:** A dropdown menu currently showing `URBIT ALLOTMENT`.
- Submit**: A button at the bottom right of the form.

No: 4

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

Source code

```
<html>
<body bgcolor="skyblue">
<a href="frames.html" target="two">navigation frame</a><br>
<a href="floatingframe.html" target="two">floating frame</a><br>
<a href="mixedframe.html" target="two">mixed frame</a><br>
</body>
</html>
```

FRAMES

```
<html>
<frameset cols="20%,25%,*" scrolling="no" noresize>
<frame name="one" src="frameset.html"></frame>
<frame src="unnamed.jpg"></frame>
<frame name="two" src="nature1.jpg"></frame>
</frameset>
</html>
```

NAVIGATION FRAME

```
<html>
<frameset cols="25%,*" scrolling="no" noresize>

<iframe name="one" src="frameset.html">
</frame>
<frame name="two" ></frame>
<frameset rows="30%,*">
<frame src="">
</frame>
</frameset>
</html>
```

FLOATING FRAME

```
<html>
<body>
<iframe src="lovelycat4.jpg" height="800" width="2000">
</iframe>
<iframe src="frameset.html" height="15%" width="7000%">
</iframe>
</body>
</html>
```

MIXED FRAME

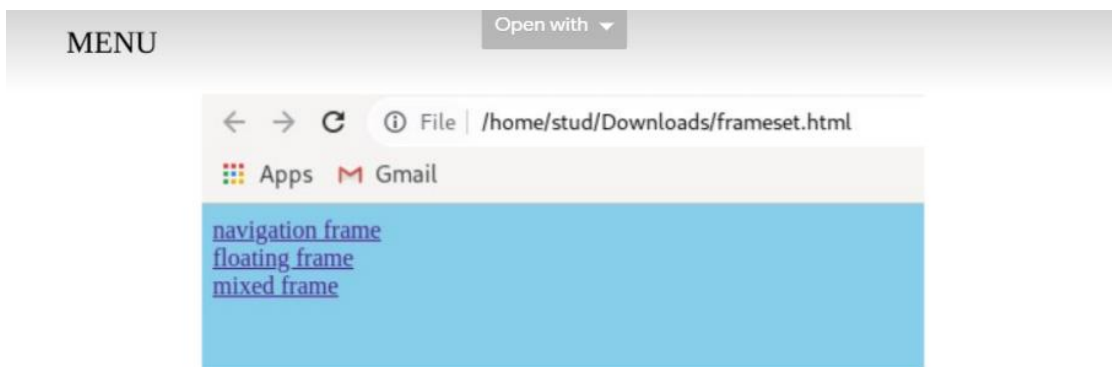
```

<html>
<frameset cols="30%,*" scrolling="no">
<frame src="loadcat.jpg" height="100" width="300">
<frameset rows="25%,*">
<frame src="photoadi.jpeg" autostart="true">
<frame src="frames.html">
</frameset>

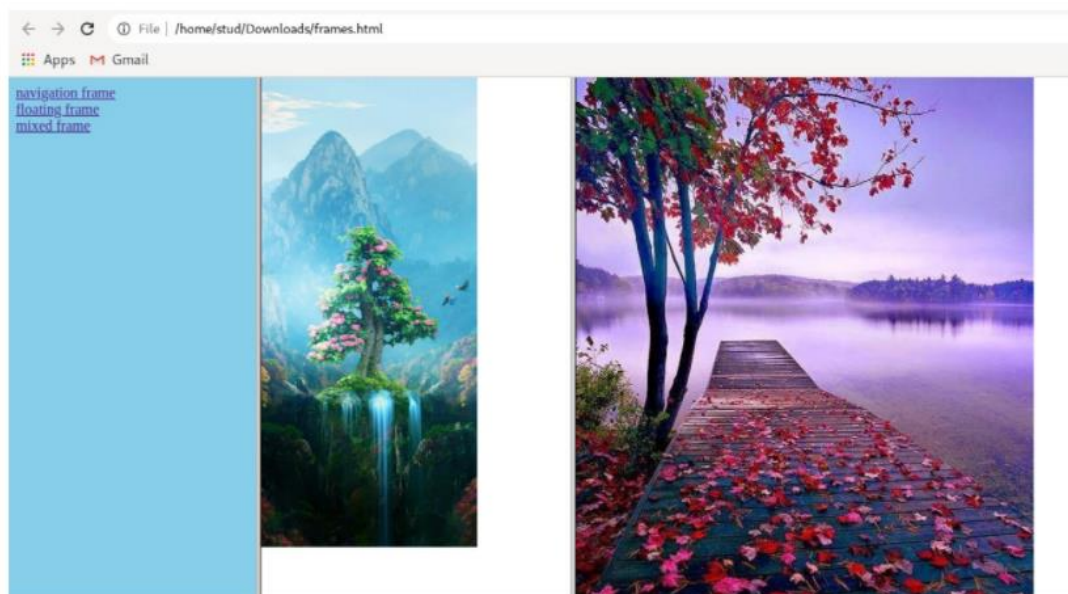
</frameset>
</html>

```

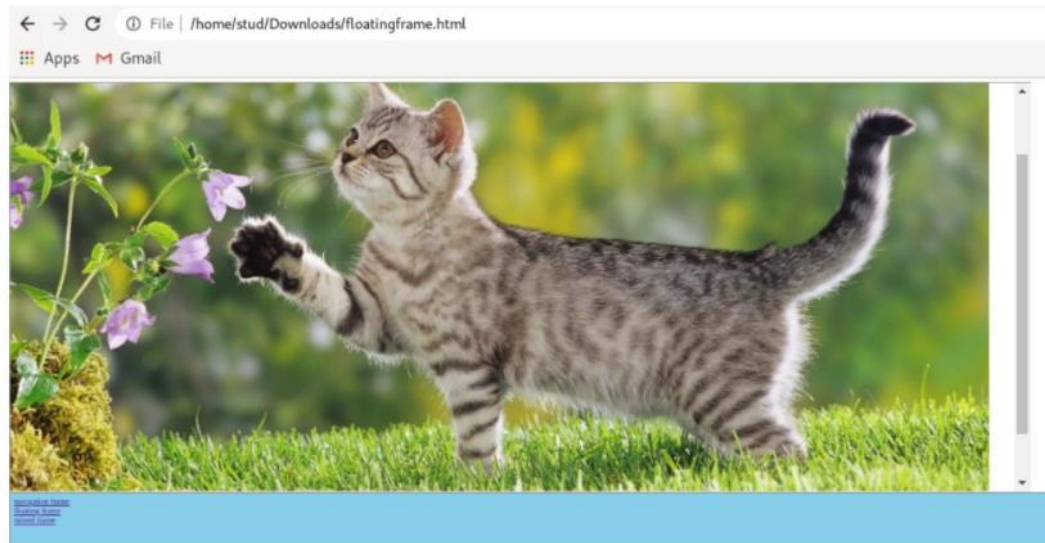
Output



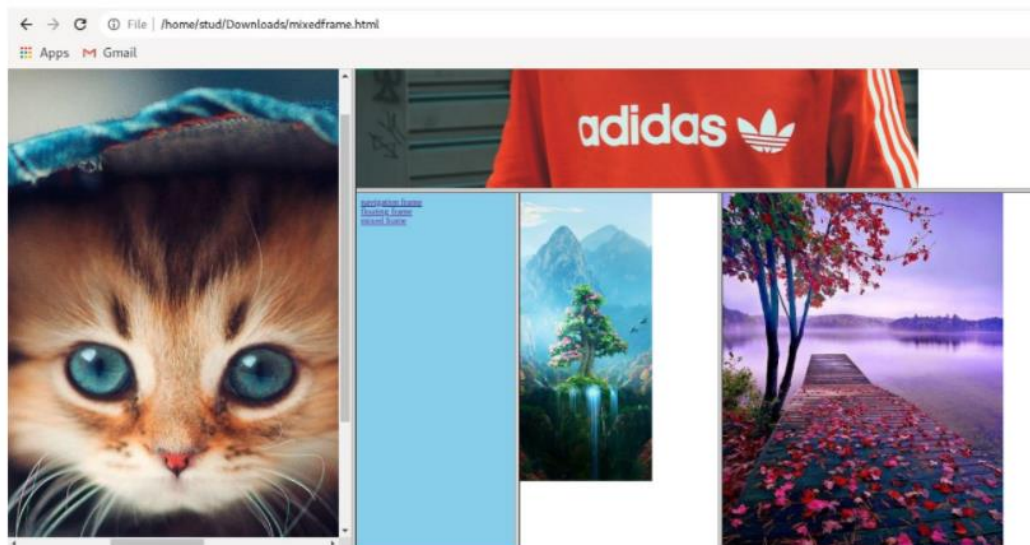
NAVIGATION FRAME



FLOATING FRAME



MIXED FRAME



No: 5

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

Source code

```
<html>
<head>
<title>register</title>
<link rel="stylesheet" href="color.css">
</head>
<body bg color=""
<form method="" action="" align="center">
<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
body{
background-color:lightblue;
color:teal;

```

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

Output

The screenshot shows a web browser window with the address bar displaying `/home/stud/ananthu/Web%20Programming/css.html`. The browser's top bar includes icons for 'Apps' and 'Gmail'. The main content area features a registration form with the title 'REGISTRATION FORM' in red. The form fields are as follows:

- Enter your first name**: A text input field.
- Enter your last name**: A text input field.
- Enter your password**: A text input field.
- ReEnter your password**: A text input field.
- Enter your email**: A text input field.
- Enter your mobile**: A text input field.
- Enter your address**: A larger text area for address input.
- Select your gender**: Radio buttons for 'male' and 'female'.
- Qualification**: Radio buttons for 'MCA' and 'BCA'.
- Select your DOB**: A date picker showing 'dd/mm/yyyy'.
- Select your Country**: A dropdown menu with the text 'Select your country'.
- Upload your pic**: A file upload button labeled 'Choose file' and a status 'No file chosen'.

At the bottom right of the form, there are two buttons: 'Send' and 'Clear'.

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"]["country"].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"]["mail"].value;
if (i == "") {
alert("Mail must be filled out");
return false;
}

var j = document.forms["myForm"]["dob"].value;
if (j == "") {
alert("DOB must be filled out");
return false;
}
}

</script>

<style>
label {
display: inline-block;
width: 200px;
```

```

}
body{ background-color:#99ebff;}
</style>
</head>
<body>
<center></center><br><br><br>

<center><h2>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</h2></center>
<h3><center><marquee><font
color="red">REGISTRATIONS OPEN
</font></marquee></center></h3>
<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



The screenshot shows a web browser window displaying the FISAT (Federal Institute of Science and Technology) registration page. The page has a light blue background. At the top center, there is a logo of FISAT. Below the logo, the text "FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)" is displayed in black, followed by "REGISTRATIONS OPEN" in red. A horizontal line separates the header from the main content area, which is titled "Application Form" in blue. The form contains several input fields with pre-filled values: Name (sagardeepkumar), Permanent Address (ghogha khering), City (c/ghogha), State (sikkim), Country (india), Pincode (737101), Mobile (9434979440), Email (sagardeepkumar@gmail.com), and Date of Birth (18/11/2000). A "Submit" button is located at the bottom right of the form.

← → ↻ File | /home/stud/ananthu/ananthuhtml/validation.html

Apps Gmail YouTube Maps Program 3

This page says
Address must be filled out

OK

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)

REGISTRATIONS OPEN

Application Form

Name

Permanent Address

City

State

Country

Pincode

Mobile

Email

Date of birth

Submit

← → ↻ File | /home/stud/ananthu/ananthuhtml/validation.html

Apps Gmail YouTube Maps Program 3

This page says
City must be filled out

OK

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)

REGISTRATIONS OPEN

Application Form

Name

Permanent Address

City

State

Country

Pincode

Mobile

Email

Date of birth

Submit

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

```
<html>
<head>
<title>String</title>
<script>
function count2(){
text1="idea";
len=text1.length;
alert(len);
}
function str1(){
str2="anil";
part=str2.slice(0,3);
alert(part);
}
function sub1(){
str3="gokul";
part=str3.substring(0,5);
alert(part);
}
function subb(){
```

```
str4="Ananthu,Anil,Gokul,";
part=str4.substr(5,7);
alert(part);
}
function replace(){text = "how are you Google";
part = text.replace("Google", "Alexa");
alert(part);
}
function touppercase(){
text1 = "hello";
text2 = text1.toUpperCase();
alert(text2);
}
function tolowercase(){
text1 = "HELLO";
text2 = text1.toLowerCase();
alert(text2);
}
function concat(){
text1 = "Hai";
text2 = "Ananthu";
text3 = text1.concat(" ", text2);
alert(text3);
}

function trim(){
text1 = "
HaiAbima
text2 = text1.trim();
alert(text2);
```

```
}  
  
function char1(){  
";text = "HELLO ANANTHU";  
char = text.charAt(0);  
alert(char);  
}  
  
function convert(){  
text="Ananthu/Anil/Gokul";  
text1=text.split("/");  
alert(text1);  
}  
  
function index(){  
str = "Have a nice day";  
part=str.indexOf("nice");  
alert(part);  
}  
  
function search(){  
str = "Have a nice day";  
part=str.search("day");  
alert(part);  
}  
  
function include(){  
text = "Have a nice day";  
part=text.includes("nice");  
alert(part);  
}  
  
function round(){  
fun=Math.round(4.7);alert(fun);  
}  
  
function ceil(){
```

```
fun1=Math.ceil(5.5);  
alert(fun1);  
}  
function floor(){  
fun2=Math.floor(-4.2);  
alert(fun2);  
}  
function trunc(){  
fun3=Math.trunc(7.6);  
alert(fun3);  
}  
function sign(){  
fun4=Math.sign(-8);  
alert(fun4);  
}  
function pow(){  
fun5=Math.pow(10,2);  
alert(fun5);  
}  
function sqrt(){  
fun6=Math.sqrt(169);  
alert(fun6);  
}  
function abs(){  
fun7=Math.abs(-5.6);  
  
alert(fun7);  
}  
function sin(){  
fun8=Math.sin(60*Math.PI/180);  
alert(fun8);
```

```

}

function cos(){
fun9=Math.cos(30*Math.PI/180);
alert(fun9);
}

function min1(){
fun10=Math.min(-22,45,-6);
alert(fun10);
}

function max1(){
fun11=Math.max(-9,45,-2,0,34,123);
alert(fun11);
}

function random(){
fun12=Math.random();
alert(fun12);
}

function log(){
fun13=Math.log(3);alert(fun13);
}
</script>
</head>
<body><h1 color="green">STRING METHOD</h1><br>
Length of a string<br>Click here
<input type="button" onclick="count2()" value="length"><br>
Slice<br>Click here
<input type="button" onclick="str1()" value="slice"><br>
Substring<br>Click here
<input type="button" onclick="sub1()" value="substring"><br>
Substr<br>Click here

```

`<input type="button" onclick="subb()" value="substr">
`

Replace
Click here

`<input type="button" onclick="replace()" value="replace">
`

Covert from lower case to upper case
Click here

`<input type="button" onclick="touppercase()" value="uppercase">
`

Convert from upper case to lower case
Click here

`<input type="button" onclick="tolowercase()" value="lowercase">
`

Join two or more strings
Click here

`<input type="button" onclick="concat()" value="concat">
`

Trim method
Click here

`<input type="button" onclick="trim()" value="trim">
`

Chartat method
Click here

`<input type="button" onclick="char1()" value="charAt">
`

Covert method
Click here<input type="button" onclick="convert()" value="convert">

Indexof method
Click here

`<input type="button" onclick="index()" value="index">
`

Search method
Click here

`<input type="button" onclick="search()" value="search">
`

Include method
Click here

`<input type="button" onclick="include()" value="include">
<h1 color="blue">MATH METHOD</h1>
`

Round method
Click here

`<input type="button" onclick="round()" value="round">
`

Ceil method
Click here

`<input type="button" onclick="ceil()" value="ceil">
`

Floor method
Click here

`<input type="button" onclick="floor()" value="floor">
`

Trunc method
Click here


```
<input type="button" onclick="trunc()" value="trunc"><br>
Sign method<br>Click here
<input type="button" onclick="sign()" value="sign"><br>
Power method<br>Click here
<input type="button" onclick="pow()" value="pow"><br>
Square root of x<br>Click here
<input type="button" onclick="sqrt()" value="sqrt"><br>
Absolute value of x<br>Click here
<input type="button" onclick="abs()" value="abs"><br>
Sin of x<br>Click here
<input type="button" onclick="sin()" value="sin"><br>
Cos of x<br>Click here<input type="button" onclick="cos()" value="cos"><br>
Minimum value<br>Click here
<input type="button" onclick="min1()" value="min"><br>
Maximum value<br>Click here
<input type="button" onclick="max1()" value="max"><br>
Random<br>Click here
<input type="button" onclick="random()" value="random"><br>
Log method<br>Click here
<input type="button" onclick="log()" value="log"><br>
</body>
</html>
```

Output

The screenshot shows a web browser window with the address bar displaying `File | /home/stud/ananthu1/ananthuhtml/pro7.html`. The browser's toolbar includes icons for Apps, Gmail, YouTube, Maps, and Program 3. The main content area is titled **STRING METHOD** and lists various string methods with corresponding buttons: Length of a string (length), Slice (slice), Substring (substring), Substr (substr), Replace (replace), Convert from lower case to upper case (uppercase), Convert from upper case to lower case (lowercase), Join two or more strings (concat), Trim method (trim), Charat method (charAt), Covert method (convert), Indexof method (index), Search method (search), and Include method (include). A modal dialog box is open, displaying the text "This page says 6" and an "OK" button.

The screenshot shows the same web browser window as above, but the modal dialog box now displays the text "This page says how are you W3Schools" and the "OK" button. The background content, including the **STRING METHOD** title and the list of string methods with their respective buttons, remains unchanged.

The screenshot shows a web browser window with the address bar displaying `/home/stud/ananthu1/ananthuhtml/pro7.html`. The browser's toolbar includes icons for Apps, Gmail, YouTube, Maps, and Program 3. The page title is "MATH METHOD". Below the title is a list of mathematical functions, each with a "Click here" link and a button labeled with the function name: round, ceil, floor, trunc, sign, pow, sqrt, abs, sin, cos, min, max, random, and log. A dialog box is open in the upper right corner, displaying the text "This page says" followed by the value "-1" and an "OK" button.

This screenshot shows the same "MATH METHOD" web page as above. The browser window and the list of mathematical functions are identical. However, the dialog box in the upper right corner now displays the value "123" instead of "-1". The "OK" button remains visible.

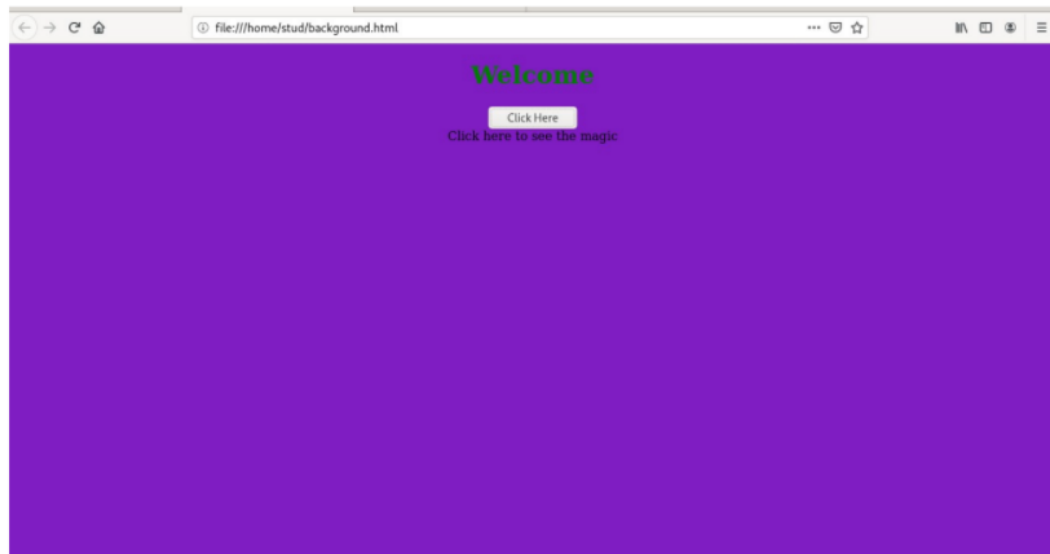
No:8

Aim: Create a HTML page to change the background color for every click of 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:green;" >
Welcome
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click
Here
</button>
<br>
<script>
document.writeln( "Click here to see the magic");
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: #E6E6E6;

}

</style>

</head>

<body>

<b><u>CALENDAR</u></b><br>
```

```

Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" /> <br>
<div id="calendar"></div>
<script>
var year = document.getElementById("cal").value; var month =
document.getElementById("month").value; function getDay(date) {
let day = date.getDay();
if (day == 0) day = 7;
return day - 1;
}
function createCalendar(elem, year, month) {
let mon = month - 1; let d = new Date(year, mon);
let table =
'<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</t
h><th>FRI</th><th>SAT</th><th>SUN</th></tr><tr><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

← → ↺ 🏠 file:///home/stud/ananthu1/ananthuhtml/calender.html ... 📄 ☆

CALENDAR

Enter The year : 2022

Enter The Month: 2

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	*	*	*	*	*	*

← → ↺ 🏠 file:///home/stud/ananthu1/ananthuhtml/calender.ht

CALENDAR

Enter The year : 2021

Enter The Month: 12

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

```
<!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 = 3.50;

    $unit_cost_second = 4.00;

    $unit_cost_third = 5.20;

    $unit_cost_fourth = 6.50;
```

```

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; ?>

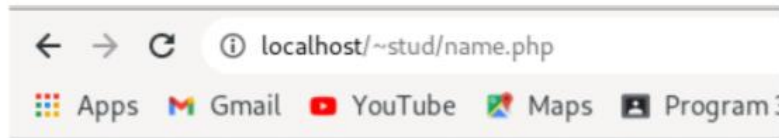
</div>

</div>

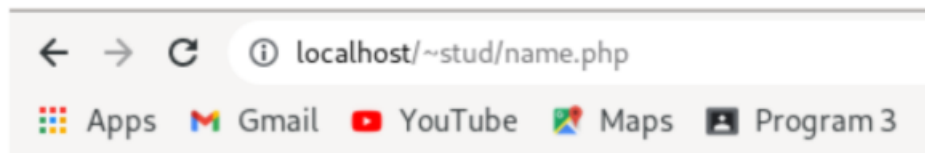
</body>

</html>
```

Output



Php - Calculate Electricity Bill



Php - Calculate Electricity Bill

Total amount of 100 - 375.00


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
$student=array("Ananthu","Anil","Gokul","Abhinav","Francis","ziyan");
echo "Student's list";
echo "<br>";
print_r($student);
echo "<br>";
echo "Sorted student list";
echo "<br>";
asort($student);
print_r($student);
echo "<br>";
echo "Reverse of sorted student list";
echo "<br>";
arsort($student);
print_r($student);
?>
```

Output



```
Student's list
Array ( [0] => Ananthu [1] => Anil [2] => Gokul [3] => Abhinav [4] => Francis [5] => ziyan )
Sorted student list
Array ( [3] => Abhinav [0] => Ananthu [1] => Anil [4] => Francis [2] => Gokul [5] => ziyan )
Reverse of sorted student list
Array ( [5] => ziyan [2] => Gokul [4] => Francis [1] => Anil [0] => Ananthu [3] => Abhinav )
```

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>";
?>
</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 headings.

Source code**PHP****Enter**

```
<?php
$ref=$_POST['ref'];
$tit=$_POST['title'];
$auth=$_POST['auth'];
$edi=$_POST['edit'];
$pub=$_POST['pub'];
$con=new
mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{ echo "Failed to connect";}
else
{echo "Connected";}
$sql="INSERT INTO book VALUES('$ref','$tit','$auth','$edi','$pub')";
if($con->query($sql))
{
echo"<BR>";
echo'New Row Added';
}
else
{
echo "ERROR:could not execute Query";
}
$con->close();
```

```
?>
```

Search

```
<?php
```

```
$title=$_POST['title'];
```

```
$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 The Book Details are :\n";
```

```
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();
```

```
?>
```

HTML

Enter

```
<html>
```

```
<head>
```

```
<title>
```

```
</title>
```

```
<body bgcolor="skyblue">
```

```
<center><h2>Enter The Book Details</h2>
```

```
<form name="nme" action="enter.php"
```

```
method="POST"><br>
```

```
Ref. Number<br><input type ="number"
```

```
name="ref"><br>
```

```
Title<br><input type ="text" name="title"><br>
```

```
Author<br><input type ="text" name="auth"><br>
```

```
Edition<br><input type ="number" name="edit"><br>
```

```
Publisher<br><input type ="text" name="pub"><br>
```

```
<br>
```

```
<input type="submit" value=" OK ">
```

```
<input type="reset" value="Cancel">
```

```
</center>
```

```
</body>
```

Search

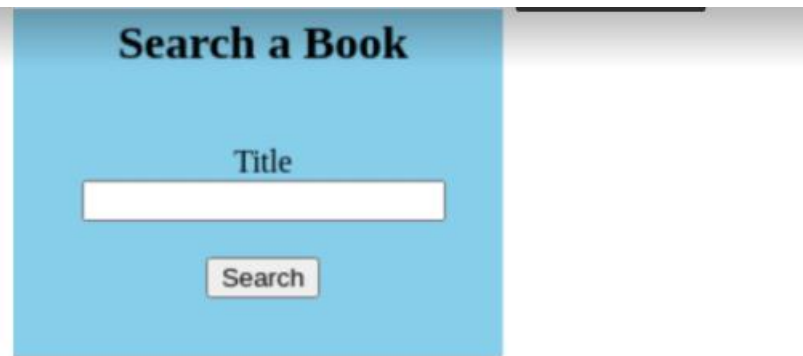
```
<html>
```

```
<head>
```

```
<title>
</title>
<body bgcolor="skyblue">
<center><h2>Search a Book</h2>
<form name="nme1" action="search.php"
method="POST"><br>
Title<br><input type="text" name="title"><br><br>
<input type="submit" value="Search">

</center>
</body>
```

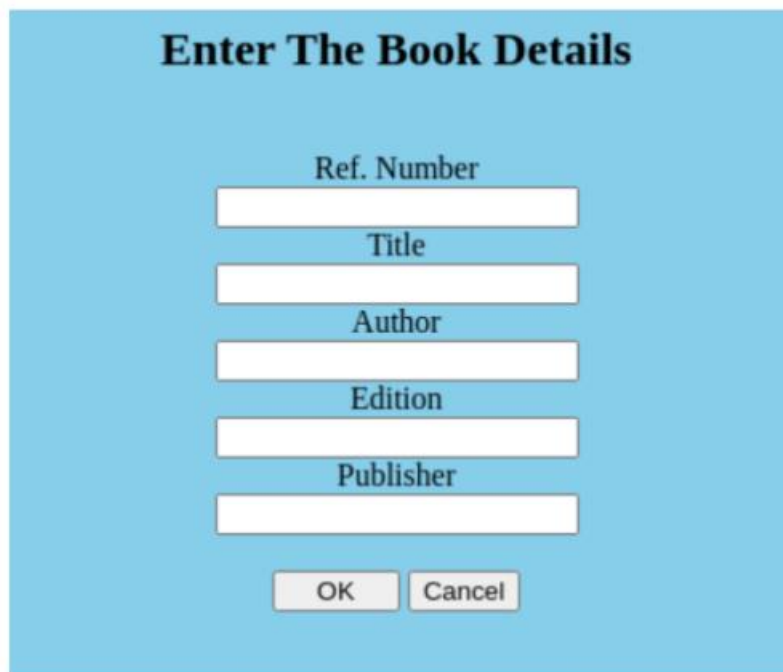
Output



Search a Book

Title

Search



Enter The Book Details

Ref. Number

Title

Author

Edition

Publisher

OK Cancel

```
MariaDB [fisatdb]> create table book (ref int(10),title varchar(30),auth varchar(20), edit varchar(30),pub varchar(30));
Query OK, 0 rows affected (0.709 sec)
```

```
MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| ref | title   | auth  | edit | pub |
+-----+-----+-----+-----+
| 11  | bad vibes | ananthu | 1111 | Anil |
+-----+-----+-----+-----+
1 row in set (0.020 sec)
```

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 code**HTML****Add**

```
<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><br>

<table border="1" cellpadding="6" cellspacing="2" align="center">
<tr>
<td>
Access Number:</td><td><input type="text" name="num">
</td></tr><tr><td>
Title:</td><td><input type="text" name="tit">
</td></tr><tr><td>
Author:</td><td><input type="text" name="author">
</td></tr><tr><td>
Edition:</td><td><input type="text" name="edi">
</td></tr><tr><td>
Publisher:</td><td><input type="text" name="pub">
</td></tr><tr><td>
<input type="submit" name="Submit">
</td><td>
```

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

```
</td>
```

```
</form>
```

```
</body>
```

```
</html>
```

BOOK INFO

```
<html>
```

```
<head>
```

```
<title>BOOK INFORMATION</title>
```

```
</head>
```

```
<center>
```

```
<body align="center"><font size="20"><b><u>BOOK INFORMATION  
SYSTEM</u></b><br><br><br>
```

```
<table border="2" cellpadding="10" cellspacing="10">
```

```
<th>
```

```
<a href="add.html">Add Book</a><br>
```

```
</th>
```

```
<th>
```

```
<a href="search.html">Search Book</a><br>
```

```
</th>
```

```
</body>
```

```
</html>
```


Search

<html>

<head>

<title>SEARCH</title>

</head>

<body>

<form name="frm2" action="search1.php"
method="POST">

<center>

<u>SEARCH A BOOK</u>

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

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

</center>

</form>

</body>

</html>

PHP

Add

```
<?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"; }
```

```
$sql="INSERT INTO booksystem VALUES($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

$title=$_POST['txt'];

$con=new
mysqli("localhost","fisat","fisat","fisatdb");

if($con==false)

{

echo "Failed to connect";
```

```
}

else

{

echo "connected\n";

}

$sql="select * from booksystem where
Title='$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

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	

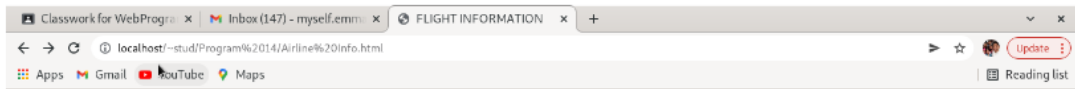
```
5 rows in set (0.001 sec)
```

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

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

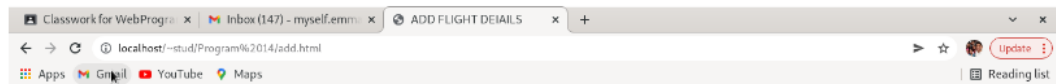
```
1 row in set (0.000 sec)
```

h



FLIGHT INFORMATION SYSTEM

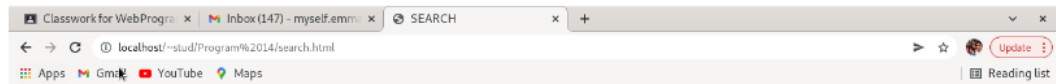
[Add Flight Details](#) [Search Flights](#)



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"/>

h



SEARCH FLIGHT

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