FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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: 43

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MARCH 2022

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)™

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 ***AYANA SUSAN BABU(FIT21MCA-2043)*** *in the* ***20MCA131 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

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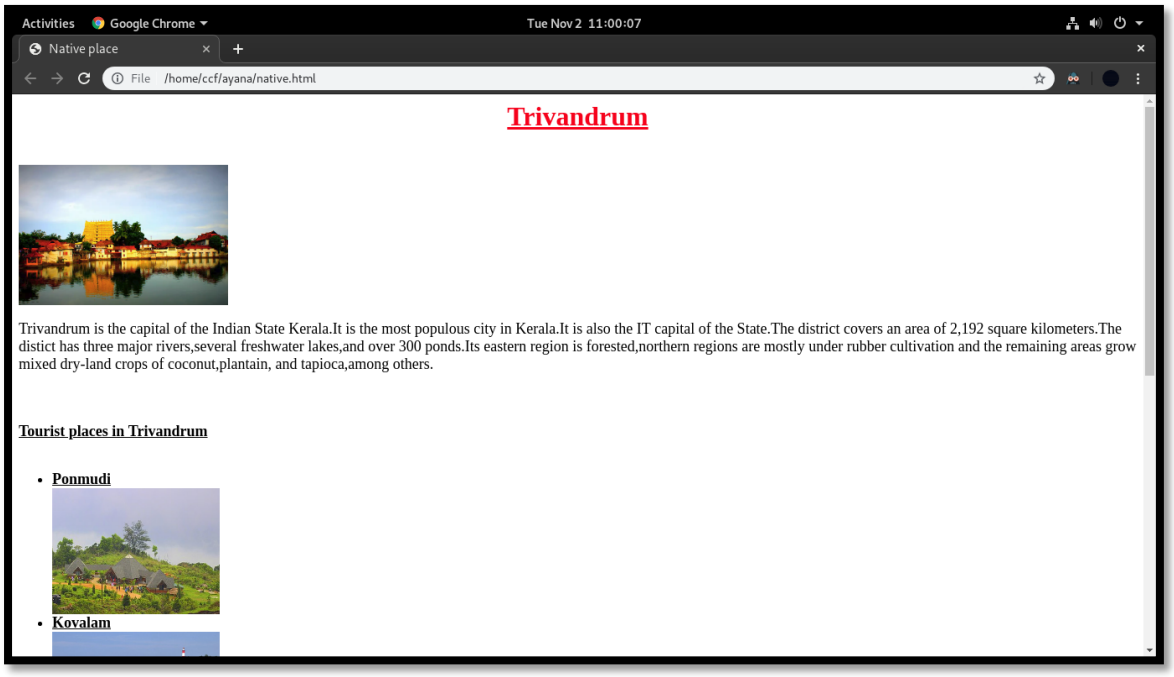
Experiment Number : 1

AIM: Model a simple HTML file related to your native place to demonstrate the useage of different tags

Program Code:

```
<html>
<head>
<title>
Native place
</title>
</head>
<body bgcolor="white">
<h1 align="center"><Font
face="ariel"size="6"color="red"><B><U>Trivandrum</font></B></U></h1><br>
<img src="tvm.pmg"align="center"width="250""height="250">
<font size="4">
<p>Trivandrum is the capital of the Indian State Kerala.It is the most populous city in Kerala.It is also the IT capital of the State.The district covers an area of 2,192 square kilometers.The distict has three major rivers,several freshwater lakes,and over 300 ponds.Its eastern region is forested,northern regions are mostly under rubber cultivation and the remaining areas grow mixed dry-land crops of coconut,plantain, and tapioca,among others.</p><br>
<h2 align="left"><U>Tourist places in Trivandrum<U><h2>
<ul>
<li>Ponmudi</li>
<img src="ponmudi.pmg"align="center"width="200"height="150">
<li>Kovalam</li>
<img src="kovalam.pmg"align="center"width="200"height="150">
<li>Museum</li>
<img src="museum.pmg"align="center"width="200"height="150">
<li>Shangumugham Beach</li>
<img src="shangumugham.pmg"align="center"width="200"height="150">
<li>Trivandrum Zoo</li>
<img src="zoo.pmg"align="center"width="200"height="150">
</font>
</body>
</html>
```

Output:


Activities
Google Chrome
Tue Nov 2 11:00:07
Native place
File /home/ccf/ayana/native.html
Trivandrum
Trivandrum is the capital of the Indian State Kerala.It is the most populous city in Kerala.It is also the IT capital of the State.The district covers an area of 2,192 square kilometers.The distict has three major rivers,several freshwater lakes,and over 300 ponds.Its eastern region is forested,northern regions are mostly under rubber cultivation and the remaining areas grow mixed dry-land crops of coconut,plantain, and tapioca,among others.
Tourist places in Trivandrum
Ponmudi
Kovalam

Experiment Number : 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

Program Code:

Page 1:

```
<html>
<head>
<title>biodata
</title>
</head>
<body bgcolor="pink">
<h1 align="center"><U>Biodata</U></h1>
<img src="biodata.pmg"align="right"width="200"height="100">
<font size="6">
<table width="600"border="1"align="center">
<tr>
<td>Name</td>
<td>Ayana Susan Babu</td>
</tr>
<tr>
<td>Address</td>
<td>Mannaraprayil House,Thamaracadu Lane,Trivandrum</td>
</tr>
<tr>
<td>Place</td>
<td>Trivandrum</td>
</tr>
<tr>
<td>Date of birth</td>
<td>26-09-1997</td>
</tr>
<tr>
<td>Gender</td>
<td>Female</td>
</tr>
<tr>
<td>Father's Name</td>
<td>Babu Varghese</td>
</tr>
<tr>
<td>Mother's Name</td>
```

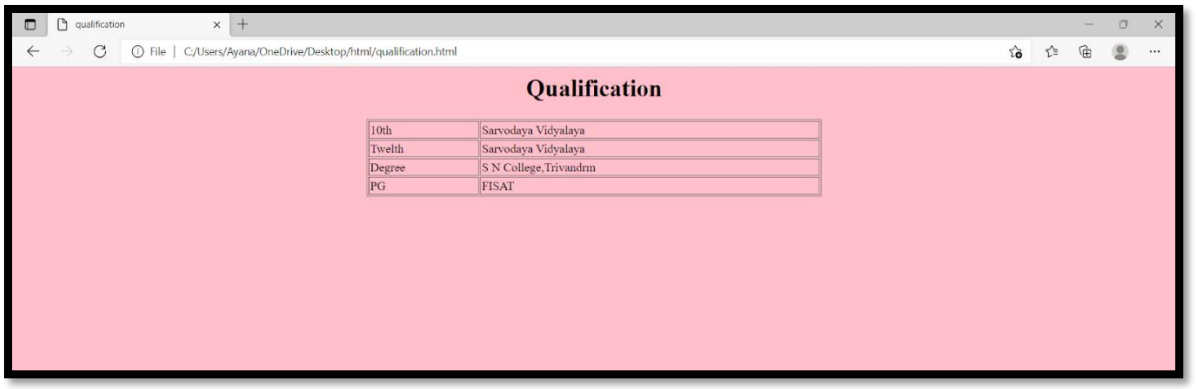
```
<td>Leena Babu</td>
</tr>
<tr>
<td>E-mail Id</td>
<td>ayanasbabu1108@gmail.com</td>
</tr>
<tr>
<td>Nationality</td>
<td>Indian</td>
</tr>
<tr>
<td>Languages known</td>
<td>English,Malayalam</td>
</tr>
</table>
<h2 align="left"><font size="3">
<a href="qualification.html">Educational Details</a></font></h2>
</body>
</html>
```

Page 2:

```
<html>
<head>
<title>qualification</title>
</head>
<body bgcolor="pink">
<h1 align="center">Qualification</h1>
<table width="600"border="1"align="center"
<tr>
<td>10th</td>
<td>Sarvodaya Vidyalaya</td>
</tr>
<tr>
<td>Twelth</td>
<td>Sarvodaya Vidyalaya</td>
</tr>
<tr>
<td>Degree</td>
<td>S N College,Trivandrm</td>
</tr>
</table>
</body>
<html>
```

Output:


Activities
Google Chrome
Tue Nov 2 10:59:14
biodata
File /home/ccf/ayana/biodata.html
Biodata
Name Ayana Susan Babu
Address Mannaraprayil House,Thamaracadu Lane,Trivandrum
Place Trivandrum
Date of birth 26-09-1997
Gender Female
Father's Name Babu Varghese
Mother's Name Leena Babu
E-mail Id ayanasbabu1108@gmail.com
Nationality Indian
Languages known English,Malayalam
Educational Details


qualification
File | C:/Users/Ayana/OneDrive/Desktop/html/qualification.html
Qualification
10th Sarvodaya Vidyalaya
Twelth Sarvodaya Vidyalaya
Degree S N College,Trivandrm
PG FISAT

Experiment Number : 3

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

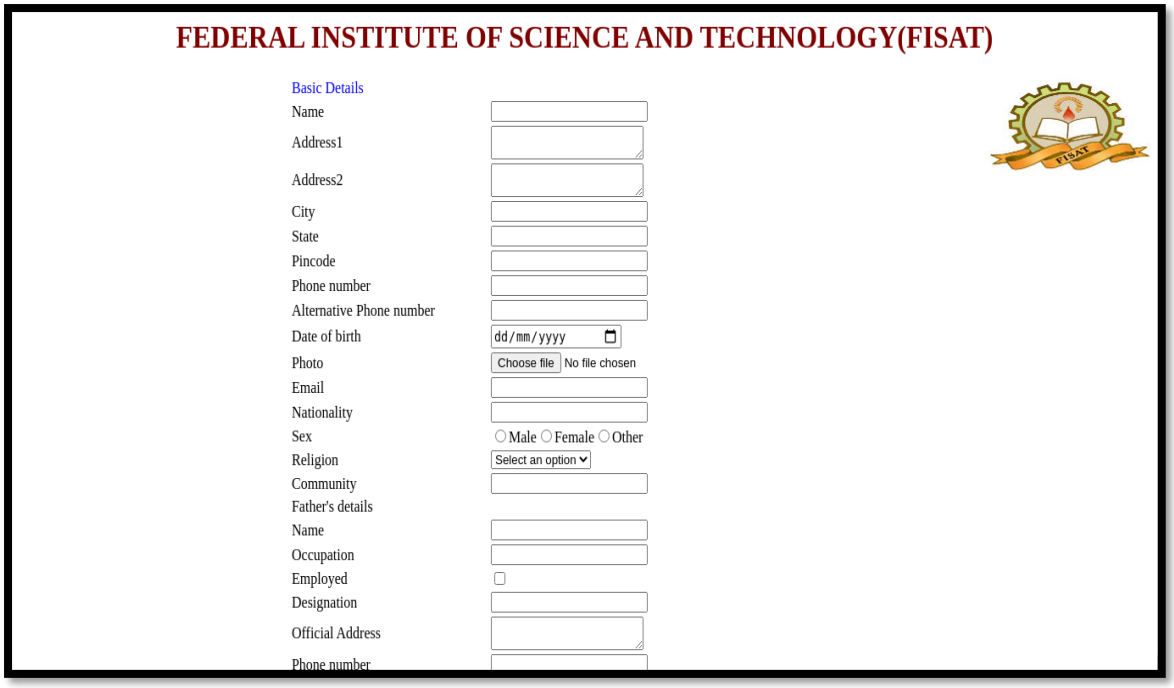
Program Code:

```
<html>
<head>
<title>MCA APPLICATION</title>
</head>
<body bgcolor="white" align="center" font color="White">
<h1 align="center"><font color="maroon">FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY(FISAT)</font></h1>
<img src="logo.jpeg"align="right"width="200"height="100">
<form>
<table align="center" height="300">
<tr>
<td><font color="Blue">Basic Details</font></td>
</tr>
<tr>
<td>Name</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Address1</td>
<td><textarea></textarea></td>
</tr>
<tr>
<td>Address2</td>
<td><textarea></textarea></td>
</tr>
<tr>
<td>City</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>State</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Pincode</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Phone number</td>
<td><input type="textfield"></td>
</tr>
<tr>
```

```
<td>Alternative Phone number</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Date of birth</td>
<td><input type="date"></td>
</tr>
<tr>
<td>Photo</td>
<td><input type="file"></td>
</tr>
<tr>
<td>Email</td>
<td><input type="email"></td>
</tr>
<tr>
<td>Nationality</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Sex</td>
<td><input type="radio" name="sex" value="Male"><label
for="Male">Male</label></input><input type="radio" name="sex" value="Female"><label
for="Female">Female</label></input><input type="radio" name="sex"
value="Other"><label for="Other">Other</label></input></td>
</tr>
<tr>
<td>Religion</td>
<td><select>
<option>Hindu
<option>Christian
<option>Muslim
<option>Other
<option selected>Select an option
</select></td>
</tr>
<tr>
<td>Community</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Father's details</font>
</tr>
<tr>
<td>Name</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Occupation</td>
<td><input type="textfield"></td>
```

```
</tr>
<tr>
<td>Employed</td>
<td><input type="checkbox"></td>
</tr>
<tr>
<td>Designation</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Official Address</td>
<td><textarea></textarea></td>
</tr>
<tr>
<td>Phone number</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td><font color="Blue">Academic Qualification</font>
</tr>
<tr>
<td>Entrance Rank</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>10th %</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>+2 %</td>
<td><input type="textfield"></td>
</tr>
<tr>
<td>Graduation Course taken/completed</td>
<td><input type="radio" name="Degree" value="Bsc"><label
for="Bsc">Bsc</label></input><input type="radio" name="Degree" value="BCA"><label
for="BCA">BCA</label></input><input type="radio" name="Degree"
value="Degree"><label for="Bcom">Bcom</label></input><input type="radio"
name="Degree" value="Other"><label for="Other">Other</label></input></td>
</tr>
<tr>
<td></td>
<td><input type="Submit"><input type="Reset"></td>
</tr>
</table>
</form>
</body>
</html>
```

Output:


FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)
Basic Details
Name
Address1
Address2
City
State
Pincode
Phone number
Alternative Phone number
Date of birth
dd/mm/yyyy
Photo
Choose file
No file chosen
Email
Nationality
Sex
Male
Female
Other
Religion
Select an option
Community
Father's details
Name
Occupation
Employed
Designation
Official Address
Phone number

Experiment Number : 4

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

Program Code:

Code 1:

```
<html>
<head>
<title>
Planet
</title>
</head>
<body bgcolor="black"text="red">
<h1 align="center">PLANET</h1>
<p>
A planet is an astronomical body orbiting a star or stellar remnant that is massive enough to be rounded by its own gravity, is not massive enough to cause thermonuclear fusion, and – according to the International Astronomical Union but not all planetary scientists – has cleared its neighbouring region of planetesimals.[b][1][2]

The term planet is ancient, with ties to history, astrology, science, mythology, and religion. Apart from Earth itself, five planets in the Solar System are often visible to the naked eye. These planets were regarded by many early cultures as divine or as emissaries of deities. As scientific knowledge advanced, human perception of the planets changed, incorporating a number of disparate objects that ranged in size, shape, orbital plane, and other characteristics. In 2006, the International Astronomical Union (IAU) officially adopted a resolution defining planets within the Solar System. This definition is controversial because it excludes many objects of planetary mass based on where or what they orbit. Although eight of the planetary bodies discovered before 1950 remain planets under the current definition, some celestial bodies that were once considered planets by the scientific community are no longer viewed as such under the current definition. Some of the excluded objects include Ceres, Pallas, Juno, Vesta (all of which are objects in the solar asteroid belt), and Pluto (the first trans-Neptunian object discovered).
</p>
<h2 align="center">Facts about planets</h1>
<iframe src="https://www.space.com/35695-weirdest-solar-system-facts.html" width="900" height="300">
```

</p>Ptolemy thought that the planets orbited Earth in deferent and epicycle motions. Although the idea that the planets orbited the Sun had been suggested many times and had much scientific backing, it wasn't until the 17th century that this view was supported by the first concrete evidence, which came in the form of the first telescopic astronomical observations, performed by Galileo Galilei.</p>

</body>

</html>

Code 2:

<html>

<head>

<title>

type of planets

</title>

</head>

<body bgcolor="black"text="red">

<h1 align="center"><u>DIFFERENT TYPES OF PLANETS</u></h1>

Jupiter

Mercury

Earth

Mars

Venus

Neptune

Saturn

Uranus

</body>

</html>

Code 3:

<html>

<head>

<title>

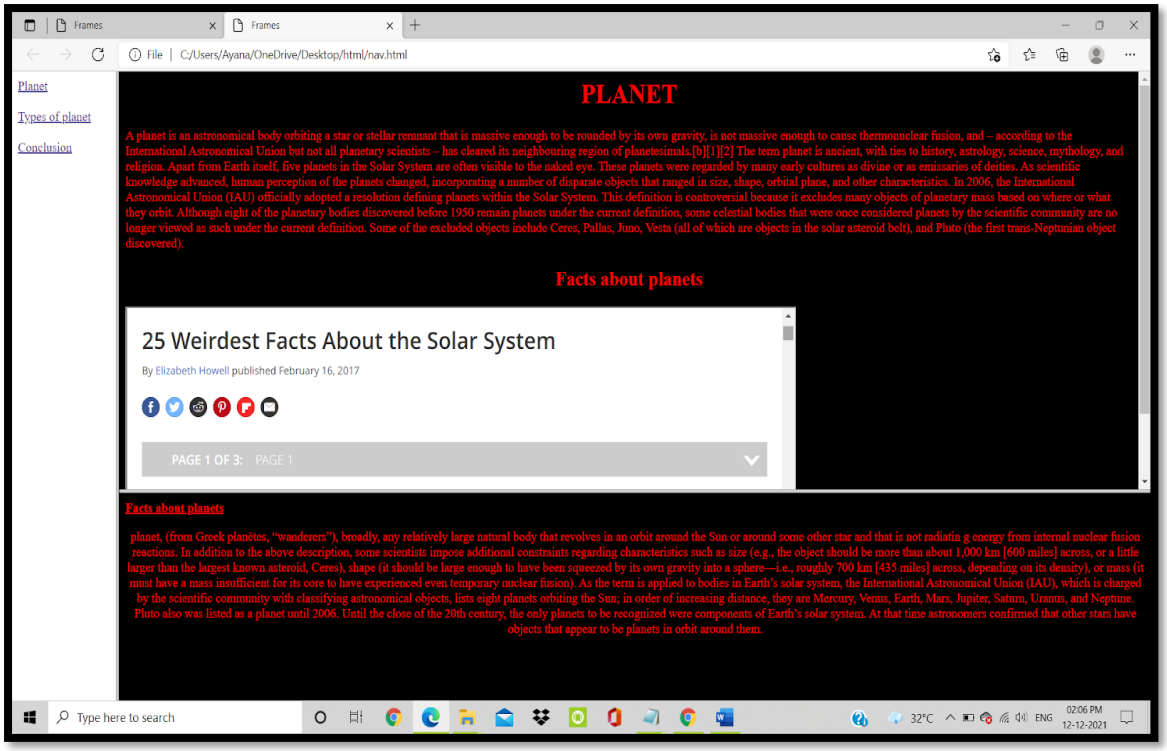
Planet

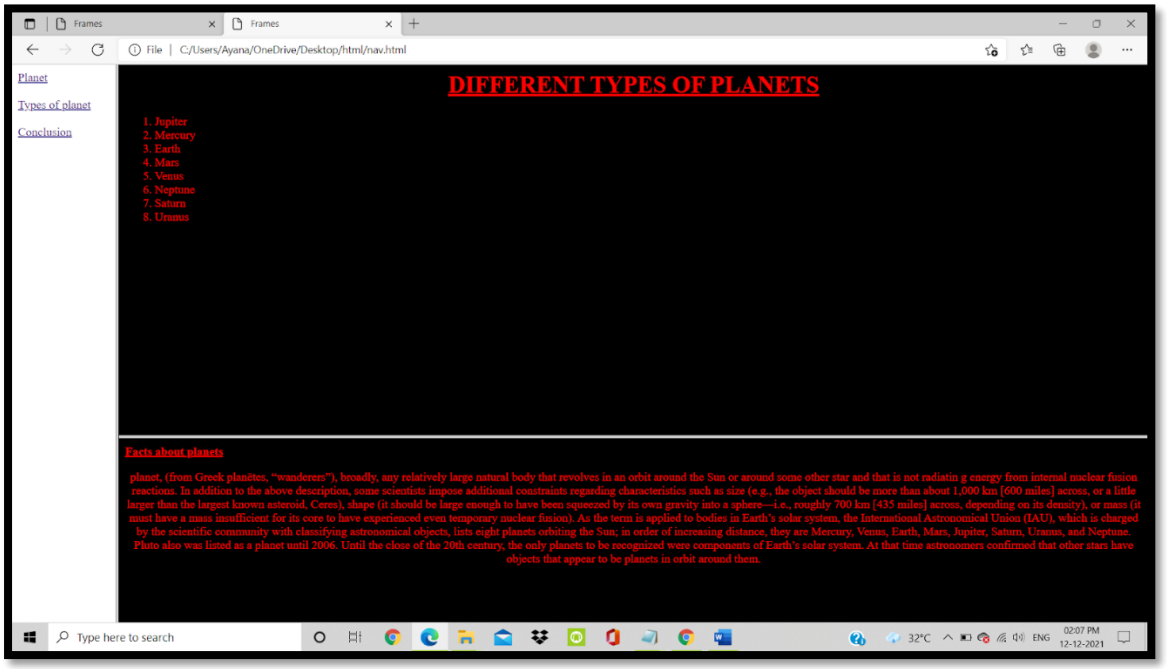
```
</title>
</head>
<body bgcolor="black"text="red">
<h1 align="center"><b><u>CONCLUSION</b></u></h1>
<p> Save the earth is the very real campaign for everyone. Everyone has to take responsibility for protecting the land because it is our land and we are living on this earth. So it becomes our responsibility to take care of it.</p>
</body>
</html>
```

Code 4:

```
<html>
<head>
<title>Frames</title>
</head>
<frameset cols="140,*">
<frame name="navF" src="navigation.html">
<frameset rows="500,*">
<frame name="mainF" src="planet.html">
<frame name="mainF" src="pl.html">
</frameset>
</frameset>
</html>
```

Output:


Frames
Frames
File | C:/Users/Ayana/OneDrive/Desktop/html/nav.html
Planet
Types of planet
Conclusion
PLANET
A planet is an astronomical body orbiting a star or stellar remnant that is massive enough to be rounded by its own gravity, is not massive enough to cause thermonuclear fusion, and – according to the International Astronomical Union but not all planetary scientists – has cleared its neighbouring region of planetesimals.[b][1][2] The term planet is ancient, with ties to history, astrology, science, mythology, and religion. Apart from Earth itself, five planets in the Solar System are often visible to the naked eye. These planets were regarded by many early cultures as divine or as emissaries of deities. As scientific knowledge advanced, human perception of the planets changed, incorporating a number of disparate objects that ranged in size, shape, orbital plane, and other characteristics. In 2006, the International Astronomical Union (IAU) officially adopted a resolution defining planets within the Solar System. This definition is controversial because it excludes many objects of planetary mass based on where or what they orbit. Although eight of the planetary bodies discovered before 1950 remain planets under the current definition, some celestial bodies that were once considered planets by the scientific community are no longer viewed as such under the current definition. Some of the excluded objects include Ceres, Pallas, Juno, Vesta (all of which are objects in the solar asteroid belt), and Pluto (the first trans-Neptunian object discovered).
Facts about planets
25 Weirdest Facts About the Solar System
By Elizabeth Howell published February 16, 2017
PAGE 1 OF 3: PAGE 1
Facts about planets
planet, (from Greek planētes, “wanderers”), broadly, any relatively large natural body that revolves in an orbit around the Sun or around some other star and that is not radiatin g energy from internal nuclear fusion reactions. In addition to the above description, some scientists impose additional constraints regarding characteristics such as size (e.g., the object should be more than about 1,000 km [600 miles] across, or a little larger than the largest known asteroid, Ceres), shape (it should be large enough to have been squeezed by its own gravity into a sphere—i.e., roughly 700 km [435 miles] across, depending on its density), or mass (it must have a mass insufficient for its core to have experienced even temporary nuclear fusion). As the term is applied to bodies in Earth’s solar system, the International Astronomical Union (IAU), which is charged by the scientific community with classifying astronomical objects, lists eight planets orbiting the Sun; in order of increasing distance, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. Pluto also was listed as a planet until 2006. Until the close of the 20th century, the only planets to be recognized were components of Earth’s solar system. At that time astronomers confirmed that other stars have objects that appear to be planets in orbit around them.
Type here to search
32°C
ENG
02:06 PM
12-12-2021


Frames
Frames
File | C:/Users/Ayana/OneDrive/Desktop/html/nav.html
Planet
Types of planet
Conclusion
DIFFERENT TYPES OF PLANETS
1. Jupiter
2. Mercury
3. Earth
4. Mars
5. Venus
6. Neptune
7. Saturn
8. Uranus
Facts about planets
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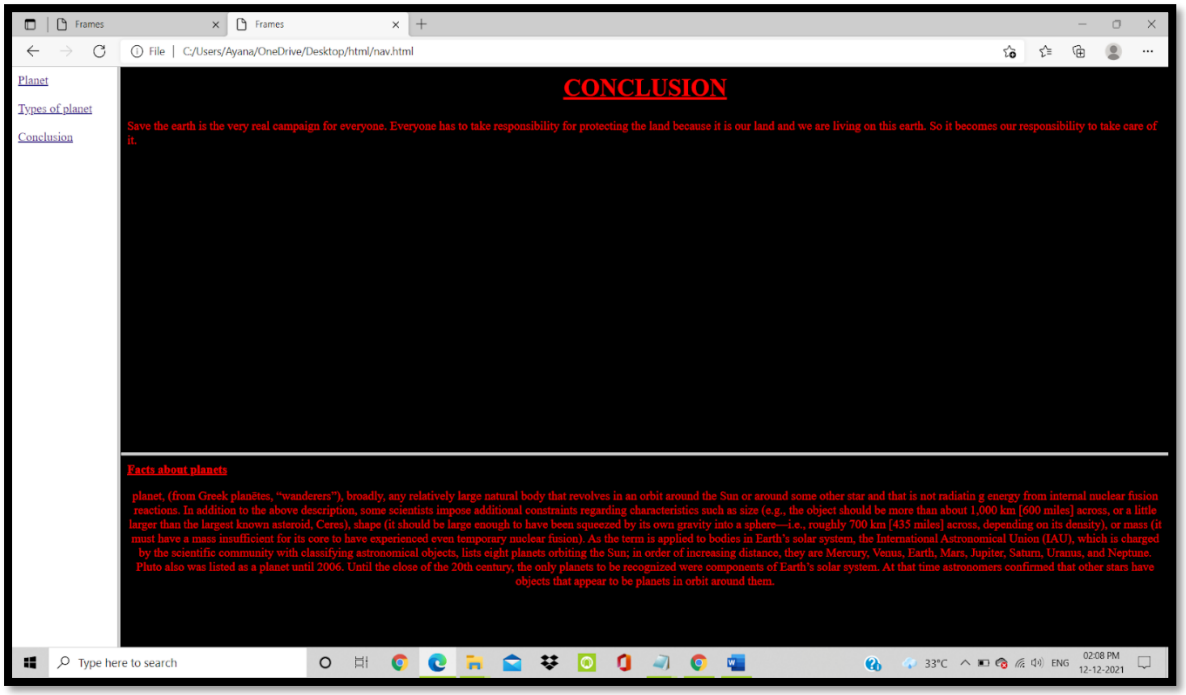
Type here to search
32°C
ENG
02:07 PM
12-12-2021


Frames
Frames
File | C:/Users/Ayana/OneDrive/Desktop/html/nav.html
Planet
Types of planet
Conclusion
CONCLUSION
Save the earth is the very real campaign for everyone. Everyone has to take responsibility for protecting the land because it is our land and we are living on this earth. So it becomes our responsibility to take care of it.
Facts about planets
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Type here to search
33°C
ENG
02:08 PM
12-12-2021

Experiment Number : 5

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

Program Code:

Code 1:

```
<html>
<head><title>css</title>
<link rel="stylesheet" href="5a.css">
<style>
body {background-color:red;}
h1   {color: yellow;}
</style>
</head>
<body>
<h1>HAI</h1>
<P>HELLO</P>
<h1 style="color:green;">GREEN COLOUR</h1>
<h1>Ayana</h1>
<P>Babu</P>
</body>
</html>
```

Code 2:

```
body

p {
  color: black;
}
```

Output:


css
File | C:/Users/Ayana/OneDrive/Desktop/html/5.html
HAI
HELLO
GREEN COLOUR
Ayana
Babu

Experiment Number : 6

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

Program Code:

Code 1:

```
<html>
<head>
<script>
function validateForm() {
var x = document.forms["myForm"]["username"].value;
var y = document.forms["myForm"]["password"].value;
if (x == "") {
alert("Username must be filled out");
return false;
}
if (y == "") {
alert("Password must be filled out");
return false;
}
}
</script>
</head>
<body>
<form name="myForm" action=frame.html onsubmit="return validateForm()"
method="post">
Username: <input type="text" name="username"><br><br>
Password: <input type="text" name="password"><br><br>
<input type="submit" value="Submit"><br>
</form>
</body>
```

```
</html><html>
<head>
<script>
function validateForm() {
var x = document.forms["myForm"]["username"].value;
var y = document.forms["myForm"]["password"].value;
if (x == "") {
alert("Username must be filled out");
return false;
}
if (y == "") {
alert("Password must be filled out");
return false;
}
}
</script>
</head>
<body>
<form name="myForm" action=frame.html onsubmit="return validateForm()"
method="post">
Username: <input type="text" name="username"><br><br>
Password: <input type="text" name="password"><br><br>
<input type="submit" value="Submit"><br>
</form>
</body>
</html>
```

Output:


username.html
File | C:/Users/Ayana/Downloads/username.html
Username:
Password:
Submit

Experiment Number : 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)

Program Code:

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript String And Math Functions</h2>
<p>The length of a string:</p>
<p id="demo"></p>
<script>
let text = "WEBPROGRAMMINGLAB";
document.getElementById("demo").innerHTML = text.length;
</script>
<p>Slice Method:</p>
<p id="demo1"></p>
<script>
let str = "orange, grapes, strawberry";
document.getElementById("demo1").innerHTML = str.slice(7,13);
</script>
<p>The substring:</p>
<p id="demo2"></p>
<script>
let str1 = "Apple, Banana, Kiwi";
document.getElementById("demo2").innerHTML = str1.substring(7,13);
</script>
<p>The substr:</p>
<p id="demo3"></p>
<script>
let str2 = "Apple, Banana, Kiwi";
document.getElementById("demo3").innerHTML = str2.substr(7,6);
</script>
<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>
<button onclick="myFunction()">Try it</button>
<p id="demo4">Please visit Microsoft!</p>
<script>
function myFunction() {
```

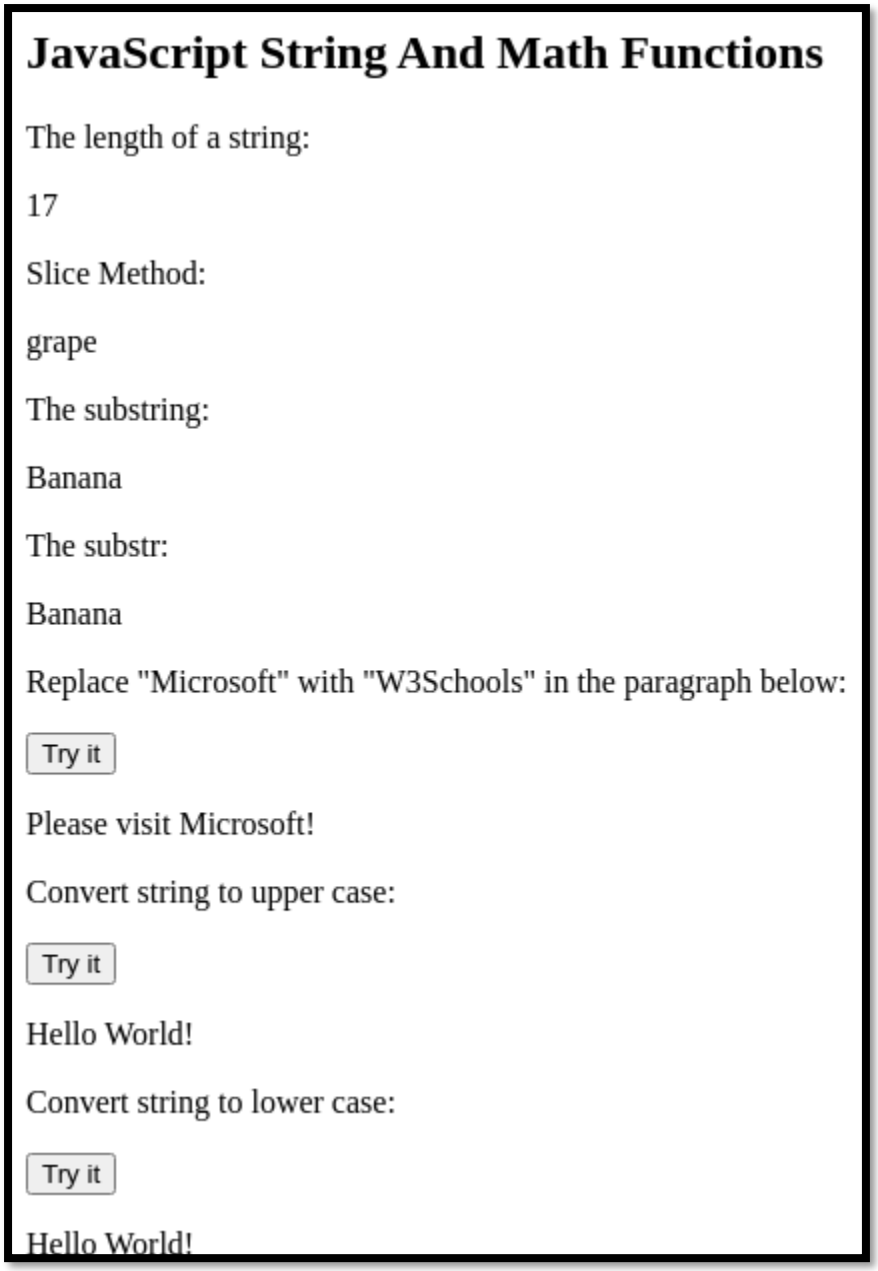
```
  let text = document.getElementById("demo4").innerHTML;
  document.getElementById("demo4").innerHTML =
  text.replace("Microsoft","W3Schools");
}
</script>
<p>Convert string to upper case:</p>

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

<p id="demo5">Hello World!</p>

<script>
function myFunction1() {
  let text = document.getElementById("demo5").innerHTML;
  document.getElementById("demo5").innerHTML =
  text.toUpperCase();
}
</script>
<p>Convert string to lower case:</p>
<button onclick="myFunction2()">Try it</button>
<p id="demo6">Hello World!</p>
<script>
function myFunction2() {
  let text = document.getElementById("demo6").innerHTML;
  document.getElementById("demo6").innerHTML =
  text.toLowerCase();
}
</script>
<p>The concat() method :</p>
<p id="demo7"></p>
<script>
let text1 = "Hello";
let text2 = "World!";
let text3 = text1.concat(" ",text2);
document.getElementById("demo7").innerHTML = text3;
</script>
<p>The trim() Method</p>
<p id="demo8"></p>
<script>
let text4 = "     Hello World!     ";
let text5 = text4.trim();
document.getElementById("demo8").innerHTML =
"Length text1=" + text1.length + "<br>Length2 text2=" + text2.length;
</script>
<p>The charAt() method :</p>
<p id="demo9"></p>
<script>
var textm = "HELLO WORLD";
document.getElementById("demo9").innerHTML = textm.charAt(1);
</script>
```

```
<p>Array:</p>

<p id="demo26"></p>

<script>
let text6 = "a,b,c,d,e,f";
const myArray = text6.split(",");
document.getElementById("demo26").innerHTML = myArray[0];
</script>
<p>The indexOf method:</p>
<p id="demo10"></p>
<script>
let str3 = "Please locate where 'locate' occurs!";
document.getElementById("demo10").innerHTML = str3.indexOf("locate");
</script>
<p>The search method:</p>
<p id="demo11"></p>
<script>
let str4 = "Please locate where 'locate' occurs!";
document.getElementById("demo11").innerHTML = str4.search("locate");
</script>
<p>Math.round():</p>

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

<script>
document.getElementById("demo12").innerHTML = Math.round(4.5);
</script>
<p>Math.ceil():</p>

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

<script>
document.getElementById("demo13").innerHTML = Math.ceil(4.4);
</script>
<p>Math.floor() :</p>

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

<script>
document.getElementById("demo14").innerHTML = Math.floor(4.7);
</script>
<p>Math.trunc() returns the integer part of x:</p>

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

<script>
document.getElementById("demo15").innerHTML = Math.trunc(4.7);
</script>
<p>Math.sign():</p>
```

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

<script>
document.getElementById("demo16").innerHTML = Math.sign(4);
</script>
<p>Math.pow(x,y):</p>

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

<script>
document.getElementById("demo17").innerHTML = Math.pow(8,2);
</script>
<p>Math.sqrt(x):</p>

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

<script>
document.getElementById("demo18").innerHTML = Math.sqrt(64);
</script>
<p>Math.abs(x):</p>

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

<script>
document.getElementById("demo19").innerHTML = Math.abs(-4.4);
</script>
<p>Math.sin(x):</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):</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()</p>

<p id="demo22"></p>

<script>
```

```
document.getElementById("demo22").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>
<p>Math.max()</p>

<p id="demo23"></p>

<script>
document.getElementById("demo23").innerHTML =
Math.max(0, 150, 30, 20, -8, -200);
</script>
<p>Math.random() :</p>

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

<script>
document.getElementById("demo24").innerHTML = Math.random();
</script>
<p>Math.log():</p>

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

<script>
document.getElementById("demo25").innerHTML = Math.log(1);
</script>
</body>
</html>
```

Output:


JavaScript String And Math Functions
The length of a string:
17
Slice Method:
grape
The substring:
Banana
The substr:
Banana
Replace "Microsoft" with "W3Schools" in the paragraph below:
Try it
Please visit Microsoft!
Convert string to upper case:
Try it
Hello World!
Convert string to lower case:
Try it
Hello World!

```
The concat() method :

Hello World!

The trim() Method

Length text1=5
Length2 text2=6

The charAt() method :

E

Array:

a

The indexOf method:

7

The search method:

7

Math.round():

5

Math.ceil():

5

Math.floor() :

4
```

```
4

Math.sign():

1

Math.pow(x,y):

64

Math.sqrt(x):

8

Math.abs(x):

4.4

Math.sin(x):

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

The sine value of 90 degrees is 1

Math.cos(x):

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

The cosine value of 0 degrees is 1

Math.min()

-200

Math.max()

150
```

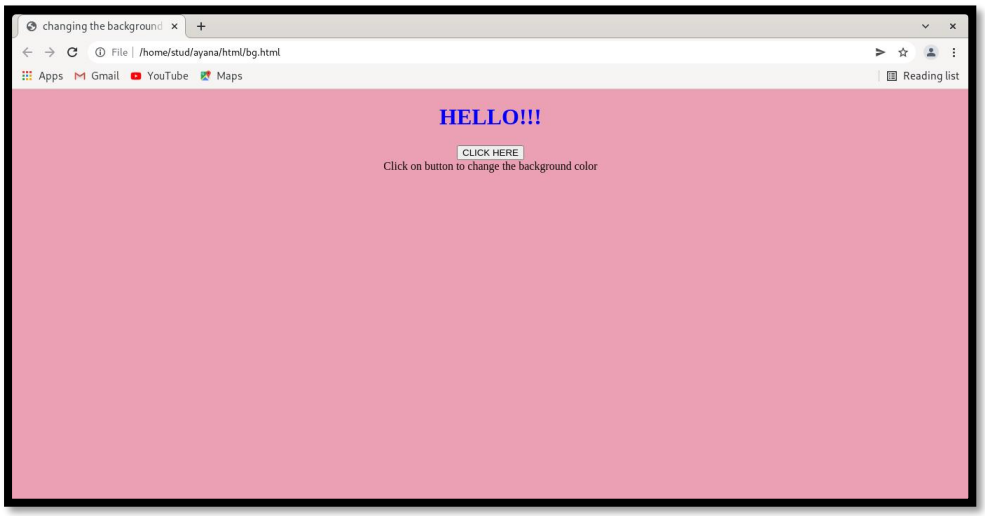
Experiment Number : 8

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

Program Code:

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

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

Output:


changing the background
File | /home/stud/ayana/html/bg.html
Apps
Gmail
YouTube
Maps
Reading list
HELLO!!!
CLICK HERE
Click on button to change the background color

Experiment Number : 9

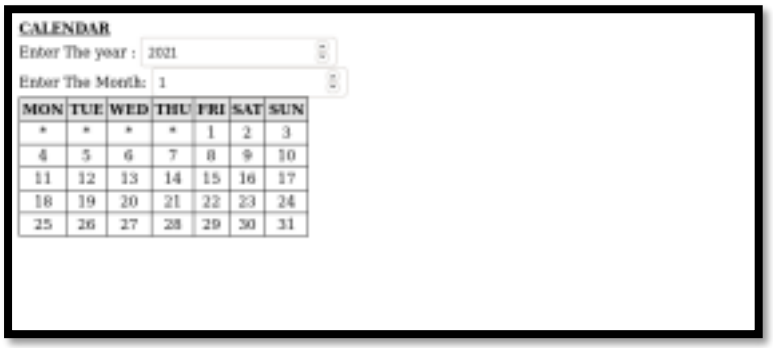
AIM: Generate the calendar using JavaScript code by getting the year and month from the user.

Program Code:

```
<!DOCTYPE HTML>
<html>
<head><title>Calendar</title>
<style>
table {
border-collapse: collapse;
 }
td, th {
border: 1px solid black;
padding: 3px;
text-align: center;
 }
th {
font-weight: bold;
background-color: #E6E6E6;
 }
</style>
</head>

<body>
<b><u>CALENDAR</u></b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" />
<br>

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

<script>
var year = document.getElementById("cal").value;
var month = document.getElementById("month").value;
function getDay(date) {
let day = date.getDay();
if (day == 0) day = 7;
return day - 1;
 }

function createCalendar(elem, year, month) {
let mon = month - 1;
let d = new Date(year, mon);
let table =
'<table><tr><th>MON</th><th>TUE</th><th>WED</th><th>THU</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:



Experiment Number : 10

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

Program Code:

```
<html>
 <head><title>Electricity bill</title></head>
 <body>
 <form name="bill"
 action="http://localhost/~user/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:

Experiment Number : 11

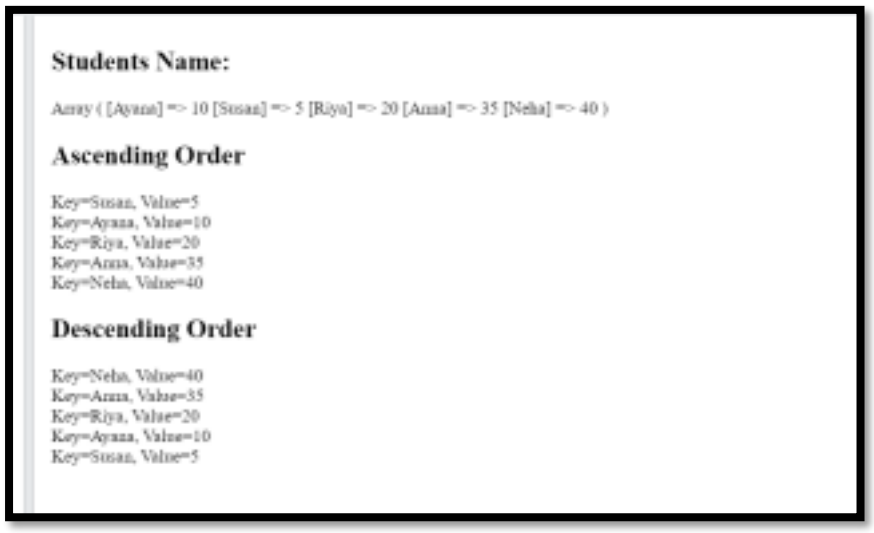
AIM: Build a PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions.

Program Code:

```
<!DOCTYPE html>
<html>
<body>
<h2>Students Name: </h2>
<?php
$a = array("Ayana"=>"10", "Susan"=>"5",
"Riya"=>"20","Anna"=>"35","Neha"=>"40"); print_r($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:



Experiment Number : 12

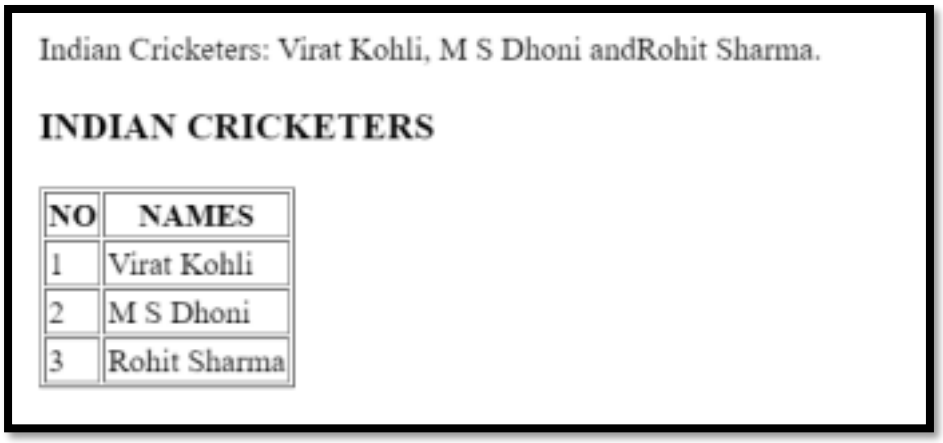
AIM: Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

Program Code:

```
<!DOCTYPE html>

<html>

<body>

<?php

$Indcricketers= array("Virat Kohli", "M S Dhoni", "Rohit Sharma"); echo "Indian Cricketers: "
.  $Indcricketers[0] . ", " . $Indcricketers[1] ." and" . $Indcricketers[2] . "."; echo
"<h3>INDIAN  CRICKETERS</h3><table border='1'>

<tr>

<th>NO</th>

<th>NAMES</th>

</tr>

<tr>

<td>1</td>

<td>Virat Kohli</td>

</tr>

<tr>

<td>2</td>

<td>M S Dhoni</td>

</tr>

<tr>

<td>3</td>

<td>Rohit Sharma</td>
```

```
</tr>";

?>

</body>

</html>
```

Output:



Experiment Number : 13

AIM: Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

Program Code:

Book_info.html

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

Add_book.html

```
<html><head>
<title>add book</title>
<style>
    label {
      display: inline-block;
      width: 300px;
    }
  </style
</head>
<body>
<form name="frm1" action="addl.php" method="POST">
<b><u>Enter Book Details</u></b><br><br>
```

```
<label>Accession Number</label>
<input type="text" name="num"><br><br>
<label>Title:</label><input type="text" name="tit"><br><br>
<label>Author:</label><input type="text" name="author"><br><br>
<label>Edition:</label><input type="text" name="edi"><br><br>
<label>Publisher:</label><input type="text" name="pub"><br><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'];
$edi=$_POST['edi'];
$pub=$_POST['pub'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected";
}
$sql="INSERT INTO book28 VALUES($num,'$tit','$author','$edi','$pub')";
if($con->query($sql))
{
```

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

Search.html

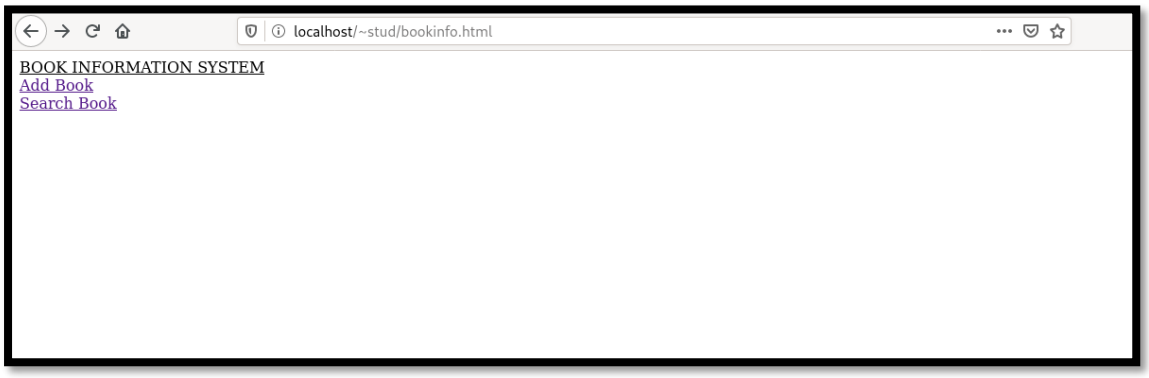
```
<html>
<head>
<title>search</title>
<style>
     label {
       display: inline-block;
       width: 300px;
     }
   </style
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH A BOOK</u></b><br><br>
<label>Enter book title:</label>
<input type="text" name="txt"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

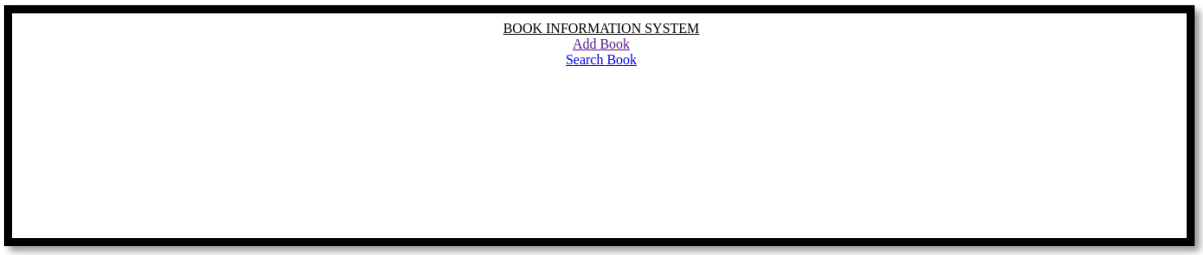
Searchl.php

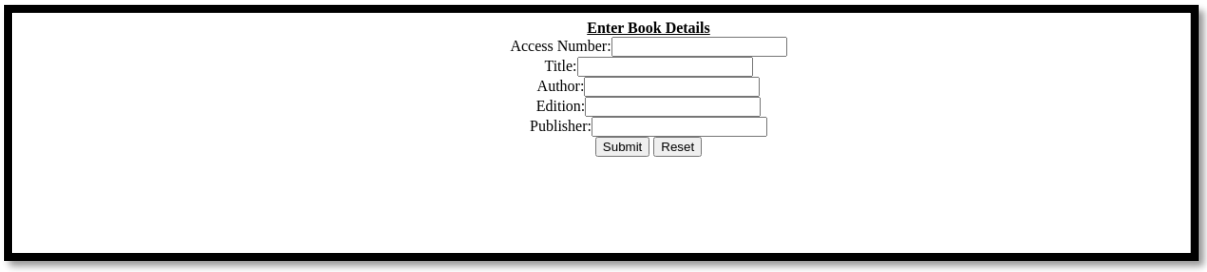
```
<?php
$title=$_POST['txt'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from book28 where Title='$title'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
  $row[4]."\n";}
$result->close();
}
else
{
echo "\nCould not found the book"; }
}
else
{ echo "\nError:could not connect"; }
$con->close();
```

?>

Output


localhost/~stud/bookinfo.html
BOOK INFORMATION SYSTEM
Add Book
Search Book


BOOK INFORMATION SYSTEM
Add Book
Search Book


Enter Book Details
Access Number:
Title:
Author:
Edition:
Publisher:
Submit
Reset

```
MariaDB [fisatdb]> select *from addb13;
+--------------+---------------+-----------------+---------+-----------+
| accessnumber | title         | author          | edition | publisher |
+--------------+---------------+-----------------+---------+-----------+
|           12 | java          |                 |         |           |
|           12 | java          | abc             | 12      | xyz       |
|           56 | python        | adef            | 8       | qwrty     |
|           78 | c++           | james           | 96      | Dc books  |
|          789 | anju          | saju            | 89      | dc books  |
|           32 | wings of fire | APJ Abdul Kalam | 2000    | DC Books  |
+--------------+---------------+-----------------+---------+-----------+
6 rows in set (0.001 sec)
```

Experiment Number :14

AIM: Using PHP and MySQL, develop a program to collect airline details and display all the airlines between a particular source and destination.

Program Code:

Airline.html

```
<html>
<head>
<title>Airline</title>
</head>
<body align="center"><u>AIRLINE SYSTEM</u><br><br>
<a href="add.html">Add Airline</a><br><br>
<a href="search.html">Search Airline</a><br>
</body>
</html>
```

Add.html

```
<html><head>
<title>Airline details</title></head>
<style>
    label {
      display: inline-block;
      width: 300px;
    }
  </style>
<body>
```

```
<form name="frm1" action="addl.php" method="POST">

<b><u>Enter Airline Details</u></b><br><br>

<label>Airline Number:</label>

<input type="number" name="num"><br></b><br>

<label>Name:</label>

<input type="text" name="name"><br></b><br>

<label>Source:</label>

<input type="text" name="src"><br></b><br>

<label>Destination:</label><input type="text" name="dstn"><br></b><br>

<label>Date:</label><input type="date" name="date"><br></b><br>

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

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

</form>

</body>

</html>
```

Addl.php

```
<?php

$num=$_POST['num'];

$name=$_POST['name'];

$src=$_POST['src'];

$dstn=$_POST['dstn'];

$date=$_POST['date'];

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

if($con==false)
```

```
{
echo "Failed to connect\n";
}
else
{
echo "connected\n";
}
$sql="INSERT INTO airline028 VALUES($num,'$name','$src','$dstn','$date')";
if($con->query($sql))
{
echo "<BR>";
echo "New row added\n";
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>
```

Search.html

```
<html>
<head>
<title>search</title>
<style>
```

```
    label {
      display: inline-block;
      width: 300px;
    }
  </style>
</head>
<body>
<form name="frm2" action="searchl.php" method="POST">
<b><u>SEARCH AIRLINE</u></b><br><br>
<label>Enter Source:</label>
<input type="text" name="src"><br><br>
<label>Enter Destination:</label>
<input type="text" name="dstn"><br><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>
```

Searchl.php

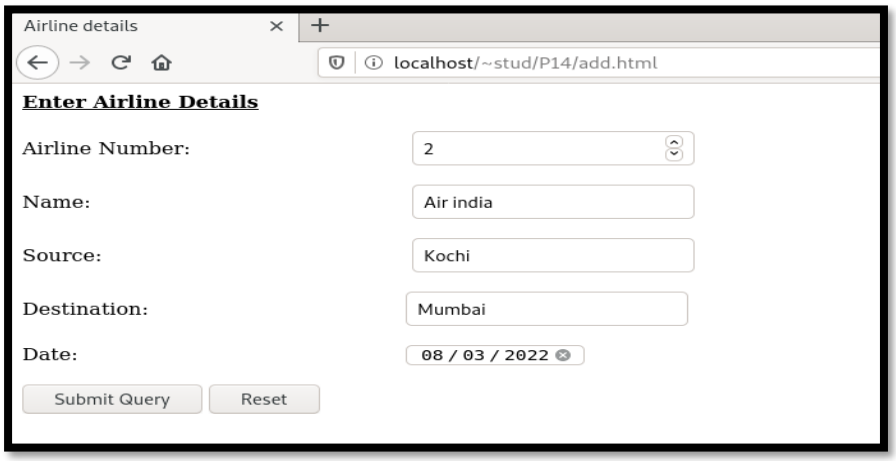
```
<?php
$src=$_POST['src'];
$dstn=$_POST['dstn'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
```

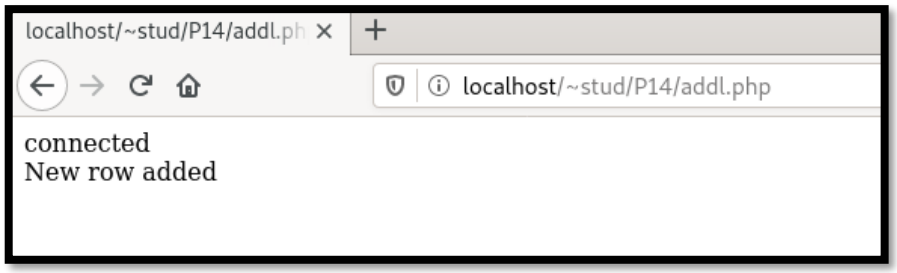
```
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline028 where Source='$src' and Destination='$dstn'";
if($result=$con->query($sql))
{
if($result->num_rows>0)
{
while($row=$result->fetch_array())
{ echo "\n".$row[0].":".$row[1].":".$row[2].":".$row[3].":".
  $row[4]."\n\n";}
$result->close();
}
else
{
echo "\nCould not found the book";
}
}
else
{
```

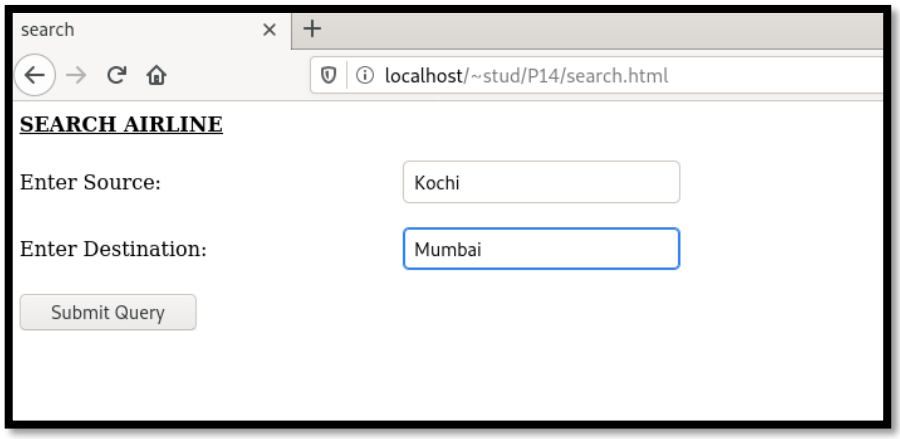
```
echo "\nError:could not connect";

}

$con->close();

?>
```

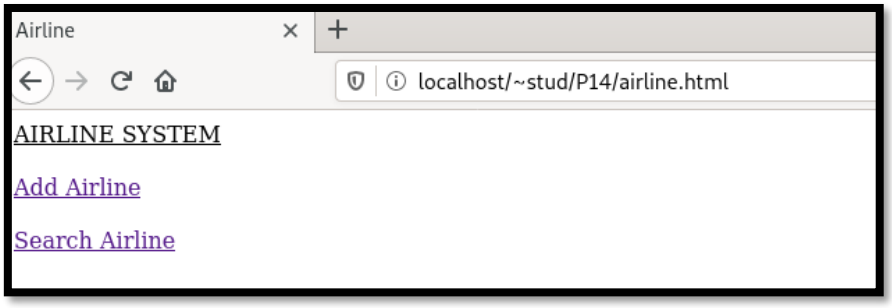
Output

```
MariaDB [fisatdb]> select * from airline028;
+----------------+------+-----------+-------------+------------+
| Airline_number | Name | Source    | Destination | Date       |
+----------------+------+-----------+-------------+------------+
|             16 | ABC  | TVM       | Pune        | 2022-02-28 |
|             23 | ahc  | Kozhikode | Tvm         | 2022-03-30 |
|             12 | xyz  | Kochi     | Mumbai      | 2022-03-13 |
|             23 | qwe  | UK        | India       | 2022-03-16 |
+----------------+------+-----------+-------------+------------+
4 rows in set (0.000 sec)
```




localhost/~stud/P14/addl.ph
localhost/~stud/P14/addl.php
connected
New row added


search
localhost/~stud/P14/search.html
SEARCH AIRLINE
Enter Source:
Kochi
Enter Destination:
Mumbai
Submit Query


Airline
localhost/~stud/P14/airline.html
AIRLINE SYSTEM
Add Airline
Search Airline