

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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Branch: MASTER OF COMPUTER APPLICATIONS

Semester: 1 Batch: A Roll No: 18

University Registration Number: FIT21MCA-2018

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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 **ANAGHA VINAYAKAN (FIT21MCA-2018)** in the **20MCA133 WEB PROGRAMMING LAB** Laboratory towards the partial fulfilment for the award of the Master Of Computer Applications during the academic year 2021-2022.*

Signature of Staff in Charge

Name:

Signature of H O D

Name:

Date of University practical examination

Signature of
Internal Examiner

Signature of
External Examiner

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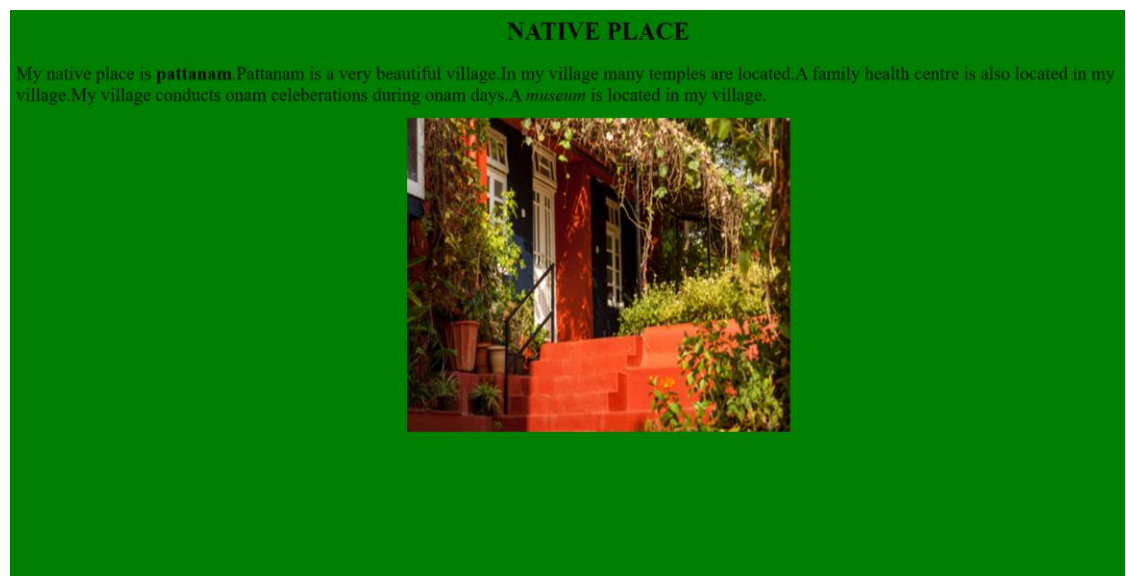
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Experiment No: 1

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

Source Code

```
<html>
<head>
<title>NATIVE PLACE
</title>
</head>
<body bgcolor="green">
<h1><center>NATIVE PLACE</h1>
<p><font size=5 face=timesnewroman>My native place is <b>pattanam</b>.Pattanam
is a very beautiful village.In my village many temples are located.A family health centre
is also located in my village.My village conducts onam celebrations during onam days.
A <em>museum</em> is located in my village.</font></p>
<center></center>
</body>
</html>
```

OUTPUT

Experiment 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>biodata
</title>
</head>
<body bgcolor="pink">
<h1 align="center"><U>Biodata</U></h1>

<font size="7">
<table width="600"border="1"align="center">
<tr>
<td>Name</td>
<td>Anagha Vinayakan</td>
</tr>
<tr>
<td>Address</td>
<td>kavugum koottathil(H),Pattanam,Vadakkekkara p o
<a href="native.html">North Paravoor</a></td>
</tr>
<tr>
<td>Place</td>
<td>Ernakulam</td>
</tr>
<tr>
<td>Date of birth</td>
<td>20/11/2000</td>
</tr>
<tr>
<td>Gender</td>
<td>Female</td>
</tr>
<tr>
<td>Father's Name</td>
<td>Vinayakan k p</td>
</tr>
<tr>
<td>Mother's Name</td>
<td>Usha Vinayakan</td>
</tr>
<tr>
```

```


<td>E-mail Id</td>
<td>anagha123@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="anag.html">Educational Details</a></font></h2>
</body>
</html>

```

OUTPUT

Biodata



Name	Anagha Vinayakan
Address	kavugum kootathil(H),Pattanam,Vadakkekara p o North Paravoor
Place	Ernakulam
Date of birth	20/11/2000
Gender	Female
Father's Name	Vinayakan k p
Mother's Name	Usha Vinayakan
E-mail Id	anagha123@gmail.com
Nationality	Indian
Languages known	English,Malayalam

[Educational Details](#)

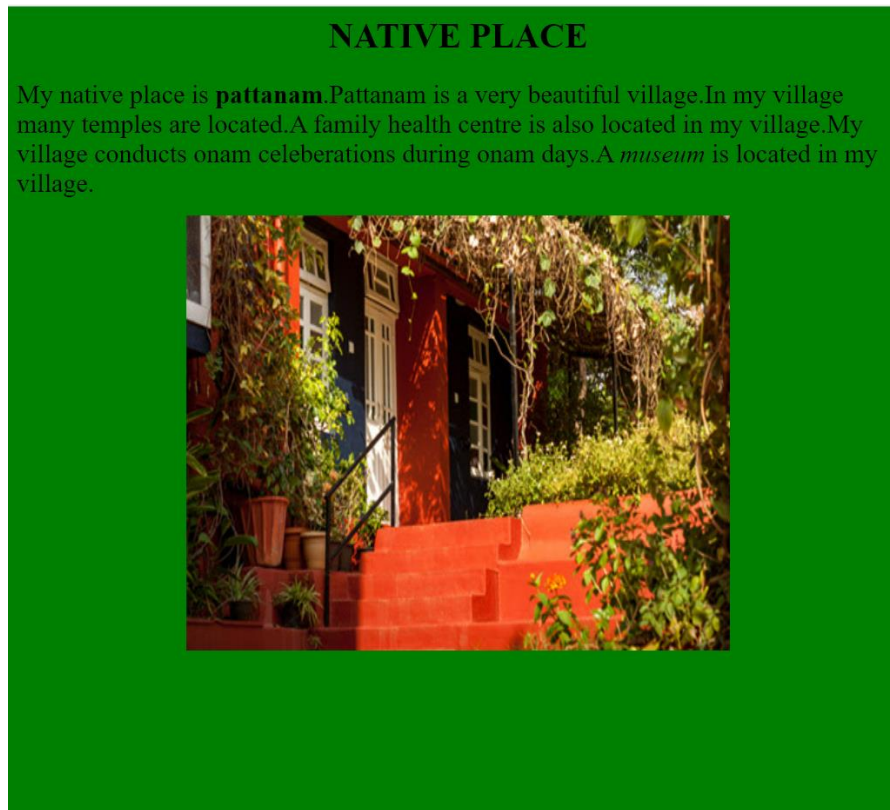
```

<html>
<head>
<title>NATIVE PLACE
</title>
</head>
<body bgcolor="green">
<h1><center>NATIVE PLACE</h1>
<p><font size=5 face=timesnewroman>My native place is <b>pattanam</b>.Pattanam is a
very beautiful village.In my village many temples are located.A family health centre is also
located in my village.My village conducts onam celebrations during onam days.
A <em>museum</em> is located in my village.</font></p>

```

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

OUTPUT



```
<html>
<head>
<title>Education
</title>
</head>
<body bgcolor="salmon">
<h1 align="center"><U>Education Quality</U></h1>
<font size="7">
<table width="600"border="1"align="center">
<tr>
<td>SSLC</td>
<td>SNV SKT HSS</td>
</tr>
<tr>
<td>PLUS TWO</td>
<td>HMYS HSS KOTTUVALLIKAD</td>
</tr>
<tr>
<td>GRADUATION</td>
<td>IHRD PUTHENVELIKKARA</td>
```



```

</tr>
<tr>

<td>POST GRADUATION</td>
<td>FISAT</td>
</table>
<h2 align="left"><font size="3">
<a href="anagha.html">Educational Details</a></font></h2>
</body>
</html>

```

OUTPUT

<u>Education Quality</u>	
SSLC	SNV SKT HSS
PLUS TWO	HMY'S HSS KOTTUVALLIKAD
GRADUATION	IHRD PUTHENVELIKKARA
POST GRADUATION	FISAT

[Educational Details](#)

Experiment No: 3

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

Source code

```
<html>
<head>
<title>
Form Creation</title>
<body font="Times new roman" color="black" bgcolor="white">
<h1 align="center">MCA APPLICATION FORM</h1>
<hr align="center" width="50%"></hr></hr></hr></hr>
<form>
<center>
<table border="1">
<tr>
<th colspan="2">
<b>Basic Details</b>
</th>
</tr>
<tr>
<td>Name</td>
<td><input type="text" maxlength="100" size="30" required>
</td>
</tr>
<tr>
<td>Address</td>
<td><textarea size=80 rows="5" cols="29"></textarea></td>
</tr>
<tr>
<td>Contact Number</td>
<td><input type="text" maxlength="100" size="30" required>
</td>
</tr>
</table>
```

```

<td>Email</td>
<td><input type="email" maxlength="100" size="30" required>
</tr>
<tr>
<td>Date of Birth</td>
<td><input type="date"></td>
</tr>
<tr>
<td>Gender</td>
<td>
Male
<input type="radio"><br>
Female
<input type="radio"><br>
Others
<input type="radio"><br>
Prefer not to say
<input type="radio"><br>
</td>
</tr>
<td>Nationality</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Religion</td>
<td><select name="religion" size="1" required>
<option disabled selected value> -- select an option -- </option>
<option value="Hindu">Hindu</option>
<option value="Christian">Christian</option>
<option value="Muslim">Muslim</option>
<option value="Others">Others</option>
</select>

```

```

</tr>

<tr>

<td>Father's Name</td>

<td><input type="text" maxlength="100" size="30" required>

</tr>

<tr>

<tr>

<td>Father's Occupation</td>

<td><input type="text" maxlength="100" size="30" required>

</tr>

<tr>

<td>Work Address</td>

<td><textarea size=80 rows="5" cols="29"></textarea></td>

</tr>

<td>Father's Contact Number</td>

<td><input type="text" maxlength="100" size="30" required>

</tr>

<td>Mother's Name</td>

<td><input type="text" maxlength="100" size="30" required>

</tr>

<tr>

<td>Mother's Occupation</td>

<td><input type="text" maxlength="100" size="30" required>

</tr>

<tr>

<td>Work Address</td>

<td><textarea size=80 rows="5" cols="29"></textarea></td>

</tr>

<td>Mother's Contact Number</td>

<td><input type="text" maxlength="100" size="30" required>

</tr>

<td>Annual Income</td>

```

```

<td><input type="text" maxlength="100" size="30" required>
</tr>
<th colspan="2">
<b>Academic Qualification</b>
</th>
<tr>
<td>Entrance Rank (if available)</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td align="center">10th %</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td align="center">12th %</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
<tr>
<td>Graduated in</td>
<td><select name="religion" size="1" required>
    <option disabled selected value> -- select an option -- </option>
    <option value="BCA">BCA</option>
    <option value="BTech">BTech</option>
    <option value="BSc Computer Science">BSc Computer
Science</option>
    <option value="Others">Others</option>
</select>
</tr>
<tr>
<td>Degree Percentage (upto published semester)</td>
<td><input type="text" maxlength="100" size="30" required>
</tr>
</table></br></br></br>

```

```

<table>

<tr>

<td align="center">

<input type="submit" name="send" value="Send">

</td>

<td align="center">

<input type="reset" name="clear" value="Clear">

</td>

</tr>

</table>

</body>

</html>

```

Output

MCAAPPLICATION FORM

Basic Details	
Name	<input type="text"/>
Address	<input type="text"/>
Contact Number	<input type="text"/>
Email	<input type="text"/>
Date of Birth	<input type="text" value="dd/mm/yyyy"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Other <input type="radio"/> Prefer not to say
Nationality	<input type="text"/>
Religion	<input type="text" value="Select an option"/>
Father's Name	<input type="text"/>
Father's Occupation	<input type="text"/>
Work Address	<input type="text"/>
Father's Contact Number	<input type="text"/>
Mother's Name	<input type="text"/>
Mother's Occupation	<input type="text"/>
Work Address	<input type="text"/>
Mother's Contact Number	<input type="text"/>
Annual Income	<input type="text"/>
Academic Qualification	
Entrance Rank (if available)	<input type="text"/>
10th %	<input type="text"/>
12th %	<input type="text"/>
Evaluated in	<input type="text" value="Select an option"/>
Degree Percentage (upon published semester)	<input type="text"/>

Experiment No: 4

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

Source codeMain.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><b><i>Federal Institute of Science And Technology (FISAT)®

```

FISAT 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.

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.

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'.

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.

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.

[Why_fisat.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>
```

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

[Home](#)
[Course](#)
[About](#)




Focus on Excellence

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

[Home](#)
[Course](#)
[About](#)

Courses Available in FISAT..

Course	Duration	Intake
B.Tech in Computer Science & Engineering (CSE)	4 Years	120
B.Tech in Electronics & Communication Engineering (ECE)	4 Years	120
B.Tech in Civil Engineering (CE)	4 Years	120
B.Tech in Mechanical Engineering (ME)	4 Years	120
Master of Computer Applications (MCA)	3 Years	120
Master of Business Administration (MBA)	3 Years	120



FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

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Federal Institute of Science And Technology (FISAT) 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.

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.

FISAT is set up at Mookkumoor, near Angamaly in Ernakulam District, Kerala, the birth place of the founder of The Federal Bank Ltd, Late K P Hermin. To honour the revered memory of the great visionary, the campus of FISAT is christened 'Hermin Nagar'.

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.

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.

Experiment No: 5

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

Source code

CSS.html

```
<html>
<head>
<title>CSS TEST</title>
<style>
h4
{
color:grey;
font-family:arial;
}
</style>
<link rel="stylesheet" type="text/css"
href="/home/stud/Documents/ANAGHA/WEBP/ext.css">
</head>
<body>
<h1>1.In-Line</h1>

<p style="color:white">Lorem Ipsum is simply dummy text of the printing and typesetting
industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s,
when an unknown printer took a galley of type and scrambled it to make a type specimen
book. It has survived not only five centuries, but also the leap into electronic typesetting,
remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset
sheets containing Lorem Ipsum passages, and more recently with desktop publishing software
like Aldus PageMaker including versions of Lorem Ipsum.</p>

<h1>2.Internal</h1>

<h4>Lorem ipsum Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod
tempor incididunt ut labore et dolore magna aliqua. Condimentum lacinia quis vel eros donec
ac odio tempor orci. Condimentum lacinia quis vel eros donec ac. Nibh venenatis cras sed
felis eget. Facilisi morbi tempus iaculis urna id. Mi tempus imperdiet nulla malesuada. Arcu
```

odio ut sem nulla pharetra diam. Nisl nunc mi ipsum faucibus vitae. Ultricies tristique nulla aliquet enim tortor. Nunc mi ipsum faucibus vitae aliquet. Morbi quis commodo odio aenean sed adipiscing diam donec adipiscing. Ut morbi tincidunt augue interdum velit.</h4>

<h1>3.External</h1>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

</body>

</html>

ext.css

body

```
{  
background-color:black;  
}
```

h1

```
{  
color:red;  
}
```

p

```
{
```

color:yellow

}

Output

1.In-Line

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

2.Internal

Lorem ipsum Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Condimentum lacinia quis vel eros donec ac odio tempor orci. Condimentum lacinia quis vel eros donec ac. Nibh venenatis cras sed felis eget. Facilisi morbi tempus iaculis urna id. Mi tempus imperdiet nulla malesuada. Arcu odio ut sem nulla pharetra diam. Nisl nunc mi ipsum faucibus vitae. Ultricies tristique nulla aliquet enim tortor. Nunc mi ipsum faucibus vitae aliquet. Morbi quis commodo odio aenean sed adipiscing diam donec adipiscing. Ut morbi tincidunt augue interdum velit.

3.External

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Experiment No:6

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

Source code

```
<html>
<head>
<script>
function validate(){
var x = document.forms["formname"]["fname","lname"].value;
if(x=="")
{
alert("required name");
}
var x1 = document.forms["formname"]["email"].value;
if(x1=="")
{
alert("required email");
}
}
var x2 = document.forms["formname"]["phone"].value;
if(x2=="")
{
alert("required phone number");
}
}
</script>
<title>Program 6</title>
</head>
<body>

Registration form and Validation

<body style="border:3px solid black;width:500px;margin:450px;margin-top:100px;">
```



```
<form name="formname" method="post" onsubmit="validate()">
<div align="center">
    <br><br>
    <h2>REGISTRATION FORM</h2>
    <label>First Name:</label>
    <input name="fname" type="text" ><br>
    <br>
    <br>
    <label>Last Name:</label>
    <input name="lname" type="text" ><br>
    <br>
    <br>
    <label>DOB:</label>
    <input name="dob" type="date" ><br>
    <br>
    <br>
    <label>Email:</label>
    <input name="email" type="email" ><br>
    <br>
    <br>
    <label>Password:</label>
    <input name="pwd" type="password" ><br>
    <br>
    <br>
    <label>Confirm Password:</label>
    <input name="pwd" type="password" ><br>
    <br>
    <br>
    <label>Mobile:</label>
    <input name="phone" type="number" ><br>
    <br>
    <br>
```

```
<input type="submit" value="SIGNUP">  
<br><br>  
</form>  
<br><br>  
</body>  
</html>
```


Output

Registration form and Validation

REGISTRATION FORM

First Name:

Last Name:

DOB: 

Email:

Password:

Confirm Password:

Mobile:

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

Source code

JavaScript String Properties

Length

The length property returns the length of a string:

text="Anagha Vinayakan"

Command :text.length

Result:

Slice

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

str="Apple, Banana, Kiwi"

Command:str.slice(7,13),

Result:

substring()

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

str1="Apple, Banana, Kiwi"

Command :str1.substring(7,13)

Result :

Replace()

Replace a text with another:

text="Please Visit Microsoft"

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

Result:

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

Try it

Please visit Microsoft!

Upper Case()

Convert string to upper case:

```
text="Hello World!"
```

```
Command :text.toUpperCase()
```

Result:

Try it

Hello World!

Lower Case()

Convert string to lower case:

```
text="Hello World!"
```

```
Command :text.toLowerCase()
```

Result:

Try it

Hello World!

Concate

The concat() method joins two or more strings:

```
text1="Hallo"
```

```
text2="World"
```

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

Result:

The trim() Method

CharAt()

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

Output

JavaScript String Properties

Length

The length property returns the length of a string:

```
text="Anagha Vinayakan"
```

```
Command :text.length
```

Result:

16

Slice

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

```
str="Apple, Banana, Kiwi"
```

```
Command:str.slice(7,13),
```

Result:

Banana

substring()

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

```
str1="Apple, Banana, Kiwi"
```

```
Command :str1.substring(7,13)
```

Result :

Banana

Replace()

Replace a text with another:

```
text="Please Visit Microsoft"
```

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

Result:

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

[Try it](#)

Please visit Microsoft!

Upper Case()

Convert string to upper case:

```
text="Hello World!"
```

```
Command :text.toUpperCase()
```

Result:

[Try it](#)

Hello World!

Lower Case()

Convert string to lower case:

```
text="Hello World!"
```

```
Command :text.toLowerCase()
```

Result:

[Try it](#)

Hello World!

Concat

The concat() method joins two or more strings:

text1="Hallo"

text2="World"

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

Result:

Hello World!

The trim() Method

Length text4=22

Length2 text5=12

CharAt()

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

Character at position 0 of HELLO WORLD is H

Input 2

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

<p>Math.sin(x) returns the sin of x (given in radians):</p>

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

<p id="sin"></p>

<h3>Math.random()</h3>

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

<p id="rand"></p>

<p>Tip: Click on "Run" several times.</p>

```
<script> document.getElementById("round").innerHTML = "Math.round(4.5)=" +
Math.round(4.5); document.getElementById("ceil").innerHTML = "Math.ceil(4.4)=" +
Math.ceil(4.4); document.getElementById("floor").innerHTML = "Math.floor(4.7)=" +
Math.floor(4.7); document.getElementById("trunc").innerHTML = "Math.trunc(4.7)=" +
Math.trunc(4.7); document.getElementById("sign").innerHTML = "Math.sign(4)=" +
Math.sign(4); document.getElementById("pow").innerHTML = "Math.pow(8,2)=" +
Math.pow(8,2); document.getElementById("sqrt").innerHTML = "Math.sqrt(64)=" +
Math.sqrt(64); document.getElementById("abs").innerHTML = "Math.abs(-4.4)=" +
Math.abs(-4.4);
document.getElementById("sin").innerHTML = "The sine value of 90 degrees is " +
Math.sin(90 * Math.PI / 180);
document.getElementById("rand").innerHTML = "Math.random()=" + Math.random();
</script>
</body>
</html>
```

OUTPUT

JavaScript Math Object

Math.round

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

Math.round(4.5)=5

Math.ceil()

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

Math.ceil(4.4)=5

JavaScript Math.floor()

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

Math.floor(4.7)=4

trunc()

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

Math.trunc(4.7)=4

Math.sign()

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

Math.sign(4)=1

Math.pow()

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

Math.pow(8,2)=64

Math.sqrt()

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

Math.sqrt(64)=8

Math.abs()

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

Math.abs(-4.4)=4.4

Math.sin()

Math.sin(x) returns the sin of x (given in radians):

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

The sine value of 90 degrees is 1

Math.random()

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

Math.random()=0.39519509939810193

Tip: Click on "Run" several times.

Experiment No:8

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

Source code

```

<html>
<head>
<title>
Program 8
</title>
</head>

<body style = "text-align:center;">
<h1 style = "color:black;" >
Welcome to Color Changing Background Page
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click Here </button>
<br>

<script>

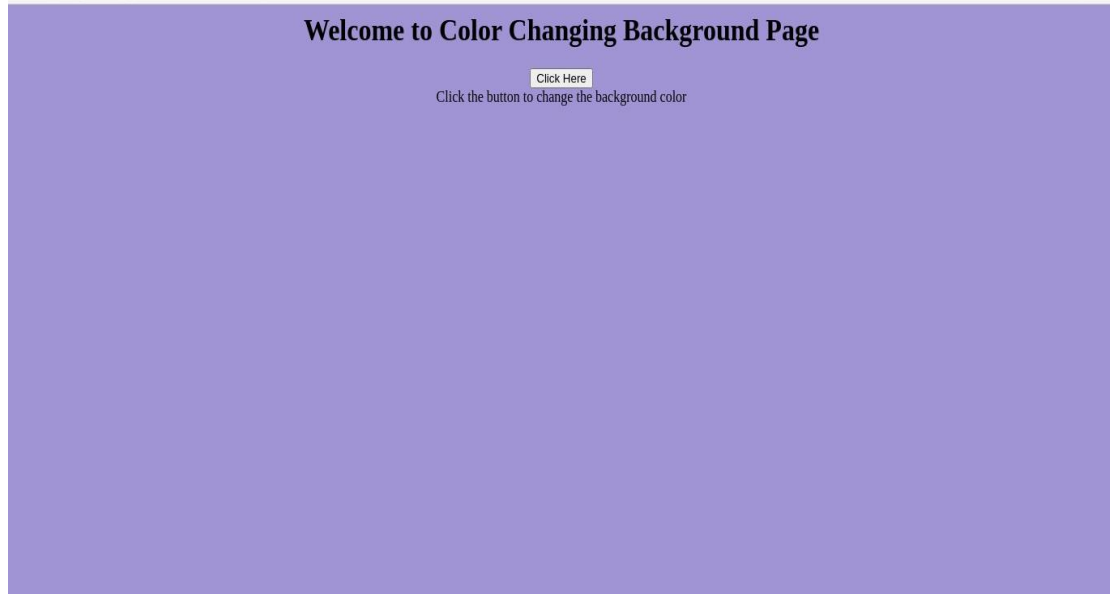
document.writeln( "Click the button to change the background color"); const pageBody =
document.querySelector("body");

function changeBg()
{
let color = '#'+(Math.random()*0xFFFFFFFF<<0).toString(16);
pageBody.style.background = color;
}

</script>
</body>
</html>

```

Output



Experiment 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;

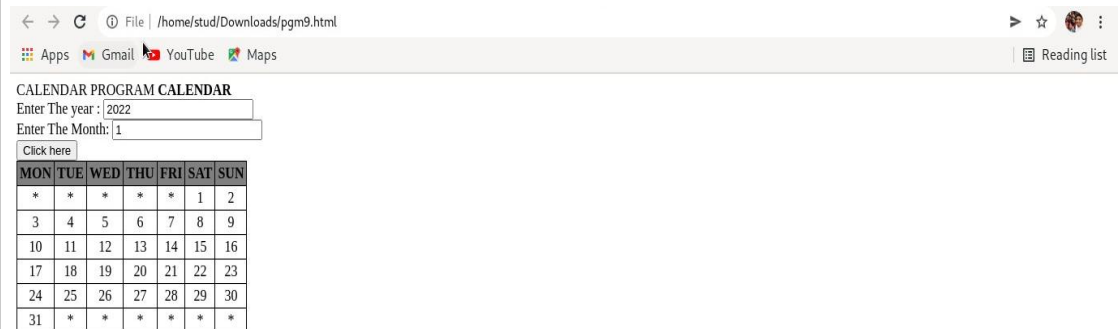
}

createCalendar(calendar, year, month);

</script></body></html>

```

Output



Experiment No:10

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

Source codeElectricity.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

EMM242662 30 Submit

Total amount for 30 units - 765.00

Experiment No:11

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

Source code

```
<?php

$stud=array("Amal","Arjun","Dhanik","Emelsha","Aleesha","Athira","Deepa","
Akshay","Bivina"); echo "List of Students"; print_r($stud); echo "<br>"; echo "Reversed
List:"; echo "<br>"; arsort($stud); print_r($stud); echo "<br>"; echo "Sorted List:"; echo
"<br>"; asort($stud); print_r($stud);

?>
```

Output

```
List of StudentsArray ( [0] => Amal [1] => Arjun [2] => Dhanik [3] => Emelsha [4] => Aleesha [5] => Athira [6] => Deepa [7] => Akshay [8] => Bivina )
Reversed List:
Array ( [3] => Emelsha [2] => Dhanik [6] => Deepa [8] => Bivina [5] => Athira [1] => Arjun [0] => Amal [4] => Aleesha [7] => Akshay )
Sorted List:
Array ( [7] => Akshay [4] => Aleesha [0] => Amal [1] => Arjun [5] => Athira [8] => Bivina [6] => Deepa [2] => Dhanik [3] => Emelsha )
```

Experiment 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

Experiment 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 codeBook_info.html

```
<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>
```

Addl.php

```
<?php

$num=$_POST['num'];

$title=$_POST['tit'];

$author=$_POST['author'];

$edi=$_POST['edi'];

$pub=$_POST['pub'];

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

if($con==false)

{ echo "Failed to connect"; }
```

```

else

{ echo "connected"; }

$sql="INSERT INTO booksystem VALUES($num,$title,$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="search1.php"
method="POST">

<center>

<b><u>SEARCH A BOOK</u></b><br><br>

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

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

</center>

</form>

</body>

```

```

</html>
Search1.php

<?php

$title=$_POST['txt'];

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

if($con==false)

{

echo "Failed to connect";

}

else

{

echo "connected\n";

}

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

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	

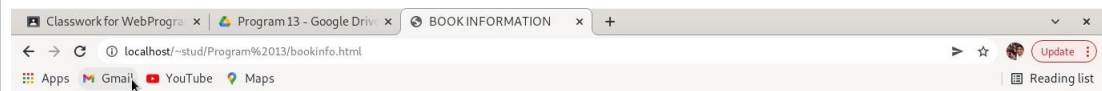
5 rows in set (0.001 sec)

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)

MariaDB [fisatdb]> █

**BOOK INFORMATION SYSTEM**

Classwork for WebProgra xProgram 13 - Google Drive xADD BOOK x+

localhost/~stud/Program%2013/add.html

Apps Gmail YouTube Maps

Update

Reading list

Enter Book Details

Access Number:

Title:

Author:

Edition:

Publisher:

Submit

Reset

Classwork for WebProgra xProgram 13 - Google Drive xSEARCH x+

localhost/~stud/Program%2013/search.html

Apps Gmail YouTube Maps

Update

Reading list

SEARCH A BOOK

Enter book title:

Submit

Experiment 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 codeAirline.html

```
<html>

<head>

<title>FLIGHT INFORMATION</title>

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

</html>
```

Add.html

```
<html><head>

<title>ADD FLIGHT DEIAILS</title></head>

<body>

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

<center><b><u>Enter Flight Details</u></b><br><br>

<table border="1" cellpadding="6" cellspacing="2" align="center">
<tr>
<td>
Flight Number:</td><td><input type="text" name="num">
</td></tr><tr><td>
Flight Name:</td><td><input type="text" name="tit">
</td></tr><tr><td>
Source:</td><td><input type="text" name="author">
</td></tr><tr><td>
```

```

Destination:</td><td><input type="text" name="edi">
</td></tr><tr><td>
Date and Time of Depatrure:</td><td><input type="datetime-local" name="pub">
</td></tr><tr><td>
<input type="submit" name="Submit">
</td><td>
<input type="reset" name="Reset">
</td>
</form>

</body>

</html>

```

Addl.php

```

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

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

if($con==false)

{ echo "Failed to connect"; }

else

{ echo "connected"; }

$sql="INSERT INTO flightssystem VALUES($num,$title,$author,$edi,$pub)";
if($con->query($sql))

{

echo "<BR>";

echo 'New row added';

}

else

{

echo "ERROR:could not execute query";

```

```

}
$con->close();
?>

```

Output

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

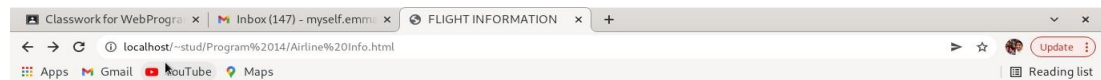
Field	Type	Null	Key	Default	Extra
fnumber	int(20)	NO	PRI	NULL	
name	varchar(25)	NO		NULL	
source	varchar(25)	NO		NULL	
destination	varchar(25)	NO		NULL	
date	datetime	NO		NULL	

```
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)
```



FLIGHT INFORMATION SYSTEM

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

Classwork for WebPrograms
Inbox (147) - myself.emm
ADD FLIGHT DETAILS
+

localhost/~stud/Program%2014/add.html
Update

Apps
Gmail
YouTube
Maps
Reading list

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 Depature:	dd/mm/yyyy, --:-- <input type="text"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

Classwork for WebPrograms
Inbox (147) - myself.emm
SEARCH
+

localhost/~stud/Program%2014/search.html
Update

Apps
Gmail
YouTube
Maps
Reading list

SEARCH FLIGHT

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