

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

HORMIS NAGAR, MOOKKANNOOR, ANGAMALY-683577



FOCUS ON EXCELLENCE

20MCA133 WEB

PROGRAMMING LAB

LABORATORY RECORD

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Semester: 1    Batch: A    Roll No: 14

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

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FOCUS ON EXCELLENCE

## CERTIFICATE

*This is to certify that this is a Bonafide record of the Practical work done by **ALEESHA MARTIN(FIT21MCA-2014)** 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 .....

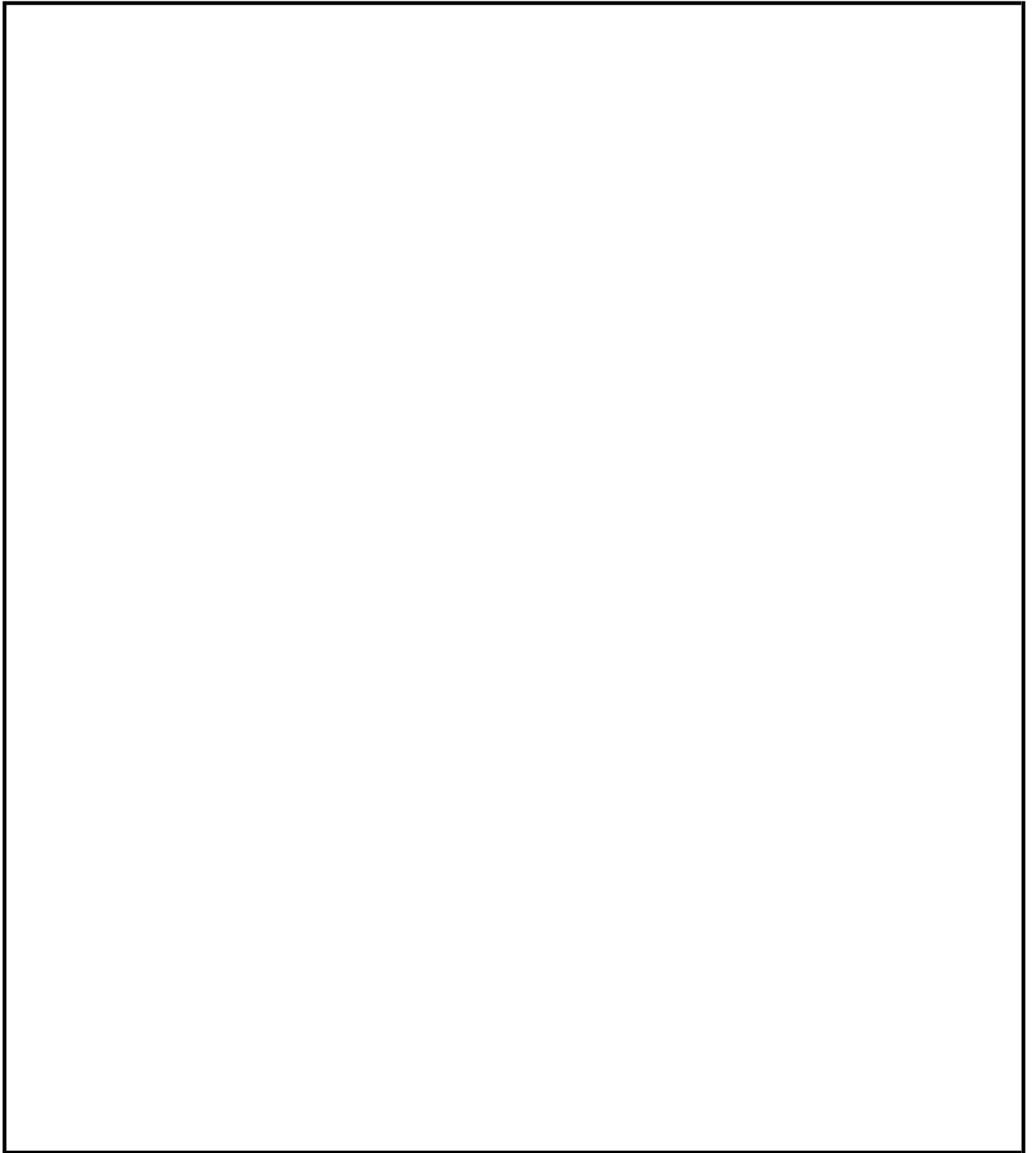
Signature of  
Internal Examiner

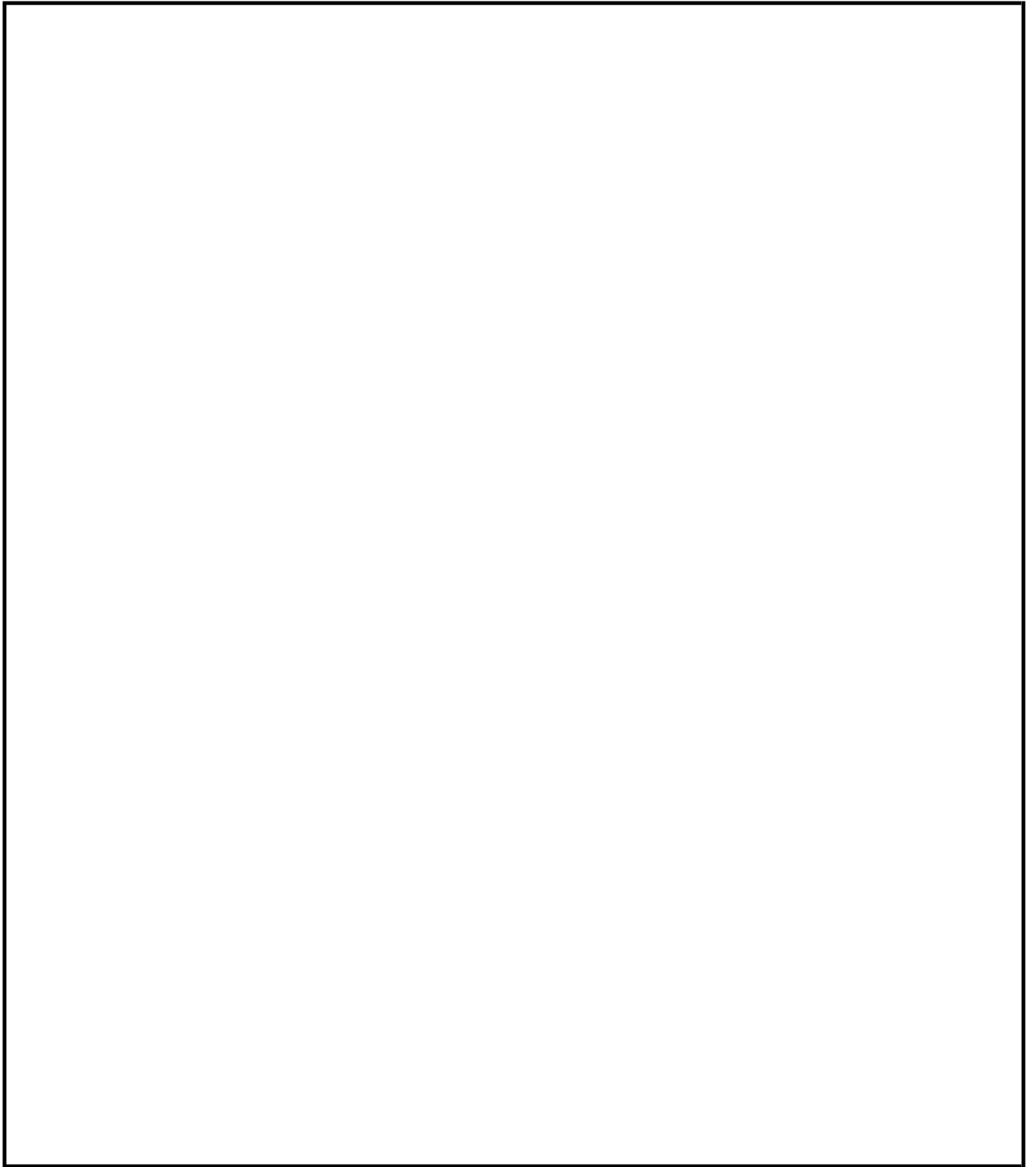
Signature of  
External Examiner

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**EXPERIMENT NUMBER: 1**

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

**Program code**

```
<html>
<head>
<title>NATIVE PLACE</title>
</head>
<body bgcolor="skyblue">
<h1 align="center">NATIVE PLACE</h1><hr>
<h1><marquee> <font color="red">PERUMBAVOOR</font></marquee></h1>

<strong>perumbavoor</strong> <small>IPA: [pe.umbə.vu.r]</small>
<cite>Malayalam: പെരുമ്പാവൂർ </cite> is a historic place located at Bank of
<i>Periyar</i> (Poorna River) in Ernakulam District in the Indian state of
<em>Kerala</em>. It lies in the north-eastern tip of the Greater Cochin area and is
also the headquarters of Kunnathunad Taluk.<b>Perumbavoor </b>is famed in the
state for wood industries and small-scale industries. Ernakulam lies 30 km southwest
of Perumbavoor. The town lies between Angamaly and Muvattupuzha on the Main
Central Road (MC), which connects Thiruvananthapuram to Angamaly through the
old Travancore part of <boldface>Kerala</boldface>. Perumbavoor lies in the banks
of river Periyar.<p>Perumbavoor has many immigrants from other parts of India,
including West Bengal, Orissa, and Uttar Pradesh. Most work in the plywood or other
industries. Tamils, Assamese and Nepalese have special colonies of their
own.</p><p>The state government and the GCDA have plans to include Angamaly,
Perumbavoor, Piravom and Kolenchery in Ernakulam district; Mala and Kodungallur
in Thrissur district; Thalayolaparambu and Vaikom in Kottayam; and Cherthala in
Alappuzha district within the Kochi metropolitan limits. The newly formed
metropolis would be put under the charge of a new authority called <big>Kochi
Metropolitan Regional Development Authority</big>.</p>
<ul><b>Places to visit</b>
```



<li>Iringole bhagavathy temple

<li>Nagancheri mana para</li>

<li>kodanad elephant training center</li>

<li> kaprikkadu</li>

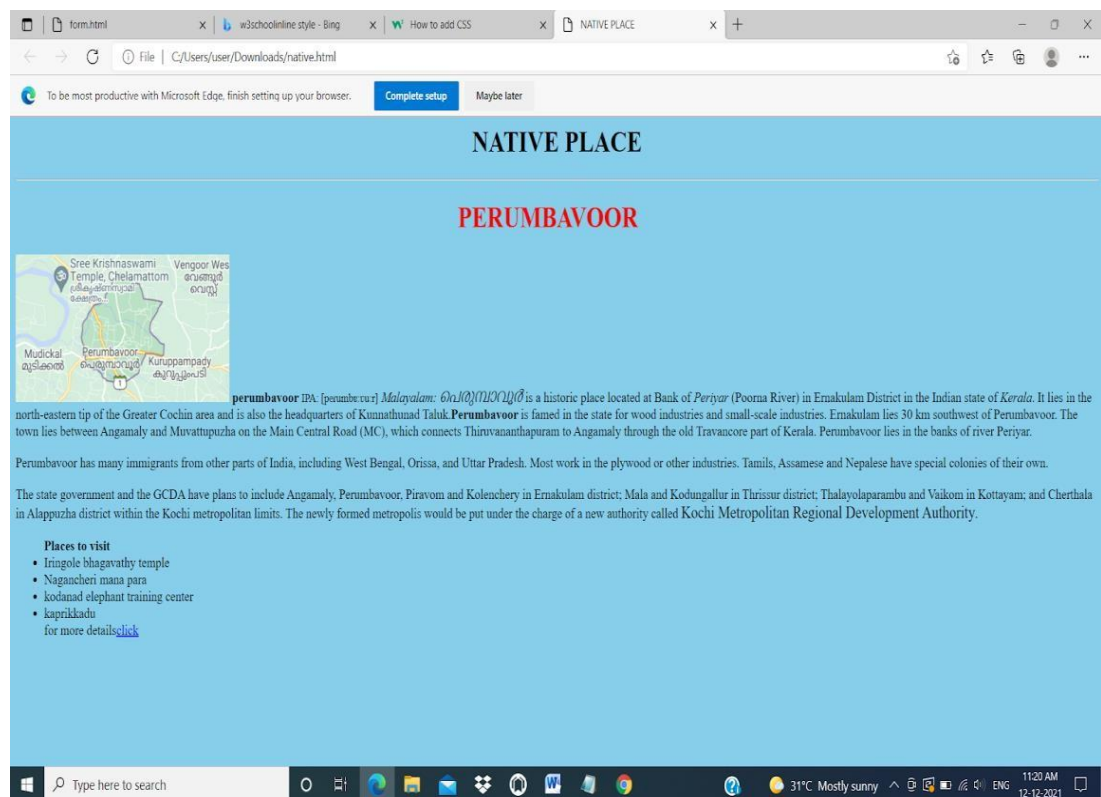
for more details<a

href="https://www.google.com/search?q=about+perumbavor&ie=utf-8&oe=utf-8&client=firefox-b-e">click</a>

</body>

</html>

## Output



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

**Program code**

```
<html>

<head>

<title>biodata

</title></head>

<body bgcolor="lightblue">

<h1 align="center">BIODATA</h1>

<table width="800" border="2" align="center" cellpadding="5">

<tr>

<td colspan="2" align="right"></td>

</tr>

<tr>

<td>FULL NAME</td>

<td>SARA JHON</td>

</tr>

<tr>

<td>FATHER NAME</td>

<td>JHON JHONY</td>

</tr>

<tr>

<td>MOTHERS NAME</td>

<td>MOLLY</td>
```

```

</tr>

<tr>

<td>PERMANENT ADDRESS</td>

<td>TEMPOIL(H)ALUVA</td>

</tr>

<tr>

<td>DATE OF BIRTH</td>

<td>25-12-2000</td>

</tr>

<tr>

<td>NATIONALITY</td>

<td>INDIAN</td>

</tr>

<tr>

<td colspan="2" align="center"><a href="//home/stud/ansa/edu.html">Academic
details</a></td>

</tr>

</table>

</body>

</html>

edu.html

<html>

<head>

<title>biodata

</title></head>

```

```
<body bgcolor="lightblue">

<h1 align="center">ACADEMIC DETAILS</h1>

<table width="800" border="2" align="center" cellpadding="5">

<tr>

<td><b>Qualifications</b></td>

<td><b>percentage</b></td>

</tr>

<td>SSLC</td>

<td>98%</td>

</tr>

<td>PLUS TWO</td>

<td>80%</td>

</tr>

<td>DEGREE</td>

<td>80%</td>

</tr>


</body>

</html>
```

## Output

The image shows two screenshots of a web browser displaying HTML forms. The first screenshot shows the 'BIODATA' form, and the second shows the 'ACADEMIC DETAILS' form.

**BIODATA Form:**

BIODATA	
	
FULL NAME	SARA JHON
FATHER NAME	JHON JHONY
MOTHERS NAME	MOLLY
PERMANENT ADDRESS	TEMPOILGHALUVA
DATE OF BIRTH	25-12-2000
NATIONALITY	INDIAN
<a href="#">Academic details</a>	

**ACADEMIC DETAILS Form:**

ACADEMIC DETAILS	
Qualifications	percentage
SSLC	98%
PLUS TWO	80%
DEGREE	80%

### EXPERIMENT NUMBER: 3

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

#### Program code

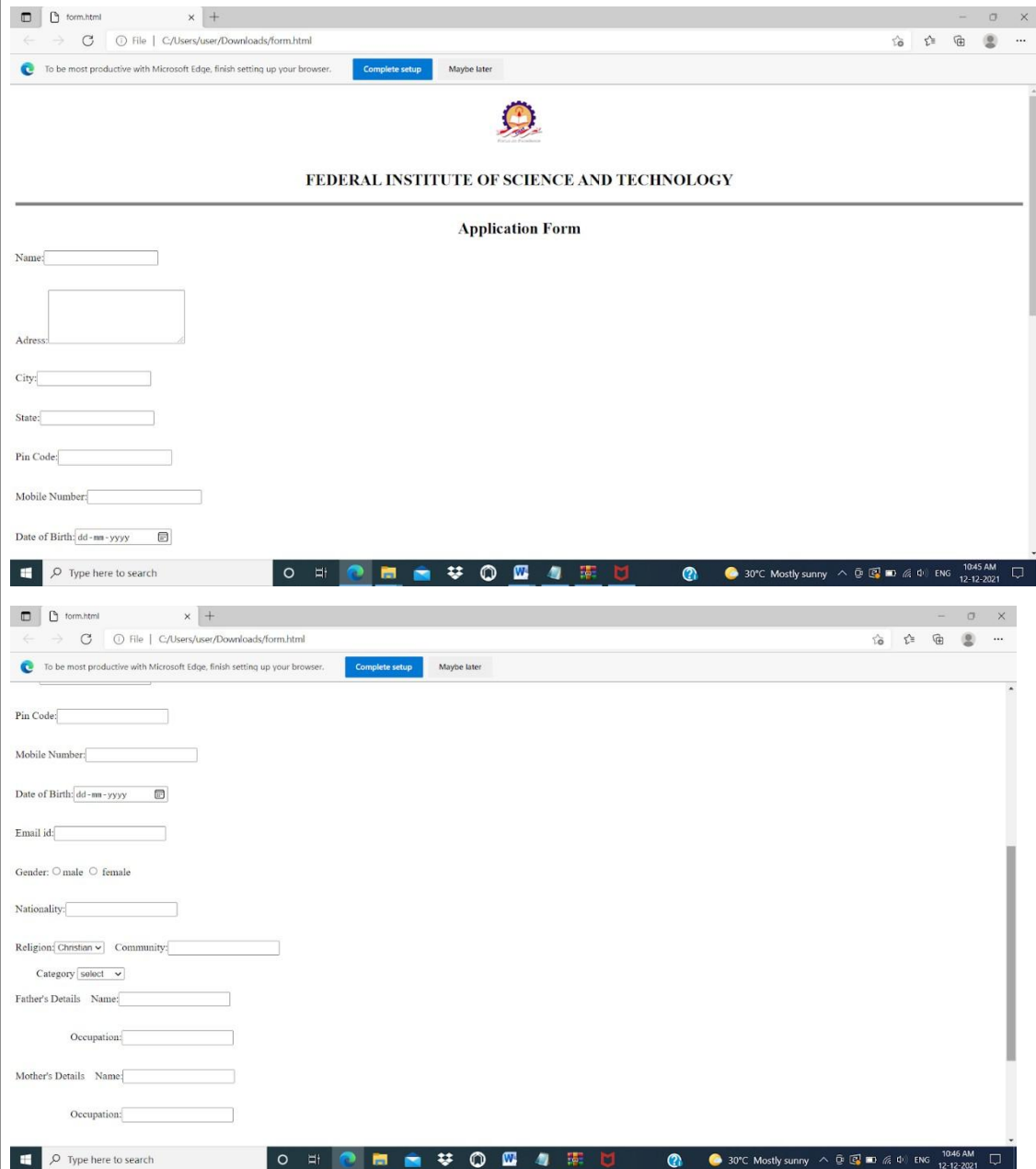
```
<html>
<head>
<title></title>
</head>
<body>
<center></center>
<h2><center>FEDERAL INSTITUTE OF SCIENCE AND
TECHNOLOGY</center></h2>
<hr size=5 noshade>
<h2><center>Application Form</center></h2>
</body>
<form>
Name:<input type="text" name="name" required><br><br><br>
Adress:<textarea name= "address" rows="5" cols="25"
required></textarea><br><br><br>
City:<input type="text" name="city" required><br><br><br>
State:<input type="text" name="state" required><br><br><br>
Pin Code:<input type="text" name="pincode" required><br><br><br>
Mobile Number:<input type="number" name="mobile" required> <br><br><br>
Date of Birth:<input type="date" name=dob required><br><br><br>
Email id:<input type="email" name="mail id" required> <br><br><br>
Gender:<input type="radio" name="Male" >male
      <input type="radio" name="Female"> female<br></br><br>
Nationality:<input type="text" name="nationality" required> <br><br><br>
Religion:<select>
      <option>Christian</option>
```



```

Plus Two[%]:<input type="text"
name="mark" required><br><br><br>
</form>
</html>

```



The screenshot shows a web browser window with the address bar displaying 'form.html' and the file path 'C:/Users/user/Downloads/form.html'. The browser's address bar also shows a message: 'To be most productive with Microsoft Edge, finish setting up your browser. Complete setup Maybe later'.

The main content of the page is the 'FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY' logo, followed by the title 'Application Form'.

The form contains the following fields:

- Name:
- Address:
- City:
- State:
- Pin Code:
- Mobile Number:
- Date of Birth:
- Pin Code:
- Mobile Number:
- Date of Birth:
- Email id:
- Gender: ☐ male ☐ female
- Nationality:
- Religion:  Community:
- Category:
- Father's Details Name:
- Occupation:
- Mother's Details Name:
- Occupation:



**EXPERIMENT NUMBER: 4**

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

**Program code**

```
<html>
<head>
<title>Frames</title>
<frameset cols="140,*">
<frame name="navS" src="///home/stud/ansa/pg4.html">
<frameset rows="500,*">
<frame name="mainF" src="///home/stud/ansa/images.jpeg">
<frame name="mainF" src="///home/stud/ansa/state.html">
</frameset>
</frameset>
</head>
<body>
</html>
```

pg4.html

```
<html>
<head><title>Navigation Bar</title></head>
<body><center>
<a href="///home/stud/ansa/india.jpg" target="mainF">INDIA</a><br><br>
<a href="///home/stud/ansa/pg4a.html" target="mainF">ABOUT
INDIA</a><br><br>
</center></body>
</html>
```

Pg4a.html

```
<html>
<head>
<title>frame</title>
</head>
<body>
<p>India, officially the Republic of India (Hindi: Bhārat Gaṇarājya),[23] is a country
in South Asia. It is the seventh-largest country by area, the second-most populous
```

country, and the most populous democracy in the world. Bounded by the Indian Ocean on the south, the Arabian Sea on the southwest, and the Bay of Bengal on the southeast, it shares land borders with Pakistan to the west;[f] China, Nepal, and Bhutan to the north; and Bangladesh and Myanmar to the east. In the Indian Ocean, India is in the vicinity of Sri Lanka and the Maldives; its Andaman and Nicobar Islands share a maritime border with Thailand, Myanmar and Indonesia.

```
<iframe src="//home/stud/answeb/emblem.html" width="800"
height="400"align="center"></iframe><br>
```

```
<p>Modern humans arrived on the Indian subcontinent from Africa no later than
55,000 years ago.[24] Their long occupation, initially in varying forms of isolation as
hunter-gatherers, has made the region highly diverse, second only to Africa in human
genetic diversity.[25] Settled life emerged on the subcontinent in the western margins
of the Indus river basin 9,000 years ago, evolving gradually into the Indus Valley
Civilisation of the third millennium BCE.[26] By 1200 BCE, an archaic form of
Sanskrit, an Indo-European language, had diffused into India from the northwest,[27]
unfolding as the language of the Rigveda, and recording the dawning of Hinduism in
India.[28] The Dravidian languages of India were supplanted in the northern and
western regions.[29] By 400 BCE, stratification and exclusion by caste had emerged
within Hinduism,[30] and Buddhism and Jainism had arisen, proclaiming social
orders unlinked to heredity.[31] Early political consolidations gave rise to the loose-
knit Maurya and Gupta Empires based in the Ganges Basin.[32] Their collective era
was suffused with wide-ranging creativity,[33] but also marked by the declining status
of women,[34] and the incorporation of untouchability into an organised system of
belief.[g][35] In South India, the Middle kingdoms exported Dravidian-languages
scripts and religious cultures to the kingdoms of Southeast Asia.[36]
```

```
</body>
```

```
</html>
```

Emblem.html

```
<html>
```

```
<head>
```

```
<title>frame</title>
```

```
</head>
```

```
<body>
```

```
<center>
```

```
<h1>EMBLEM</h1>
```

```

```

```
</center>
```

```
</body>
```

```
</html>
```

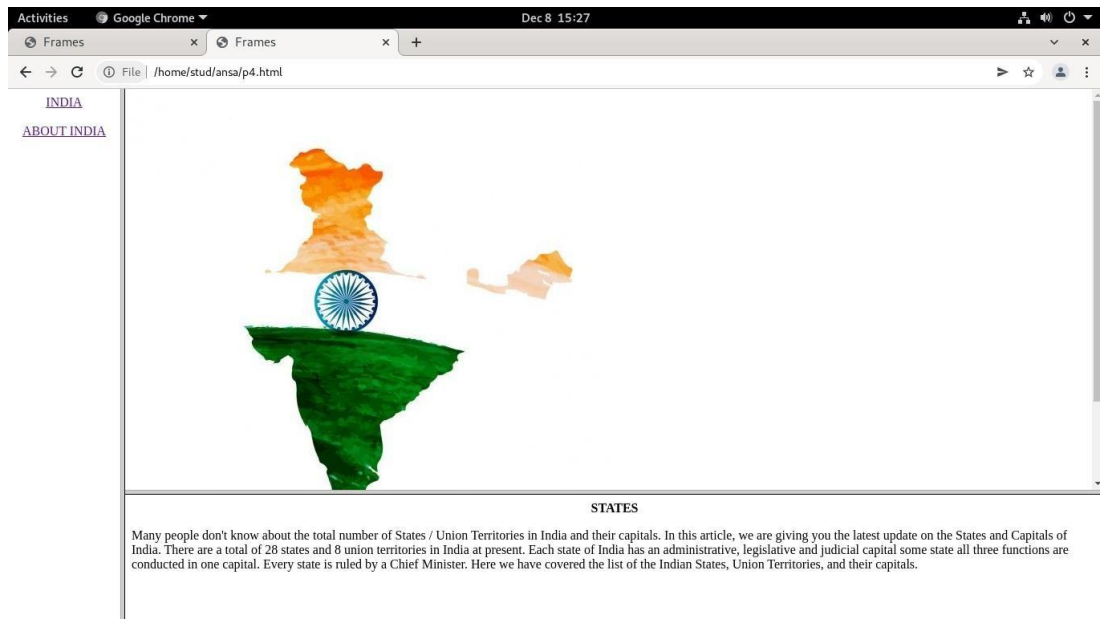
State.html

```

<html>
<head>
<title>state</title>
</head>
<body>
<center><b>STATES</b></center>
<p>Many people don't know about the total number of States / Union Territories in
India and their capitals. In this article, we are giving you the latest update on the
States and Capitals of India. There are a total of 28 states and 8 union territories in
India at present. Each state of India has an administrative, legislative and judicial
capital some state all three functions are conducted in one capital. Every state is ruled
by a Chief Minister. Here we have covered the list of the Indian States, Union
Territories, and their capitals.</p>
</body>
</html>

```

output



## EXPERIMENT NUMBER: 5

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

### Program code

```
<html>
<head><title>css</title>
<link rel="stylesheet" href="5a.css">
<style>
body {background-color:yellow;}
h1 {color: blue;}
</style>
</head>
<body>
<h1>WELCOME</h1>
<P>WORLD</P>
<h1 style="color:black;">A Black Heading</h1>
```

```
<h1>WELCOME</h1>
```

```
<P>WORLD</P>
```

```
</body>
```

```
</html>
```

Css.html

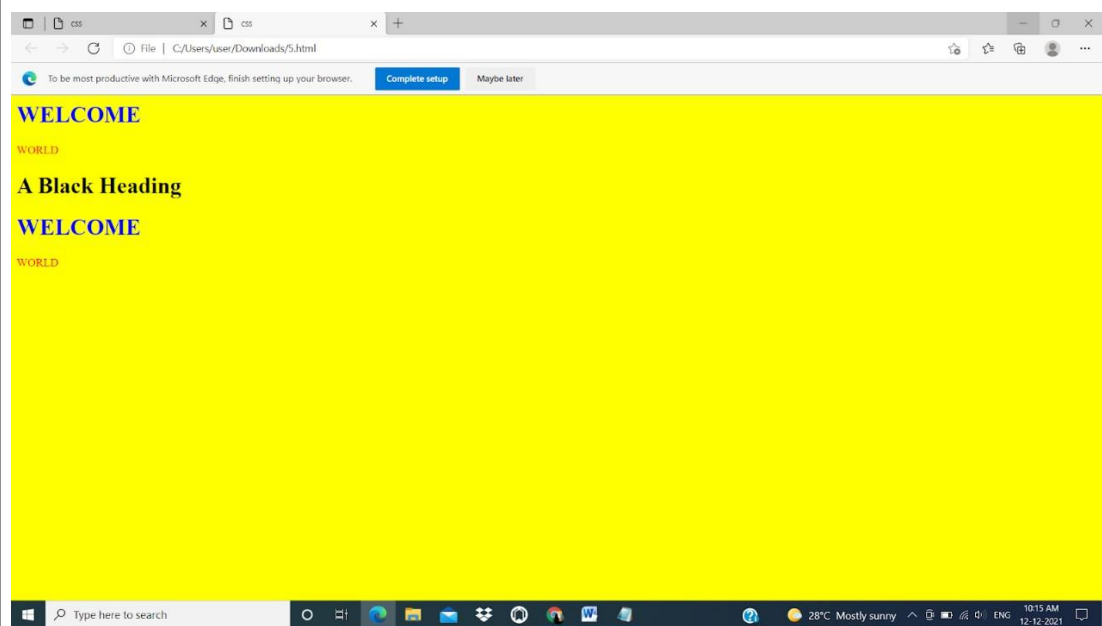
body

p {

color: red;

}

## Output



**EXPERIMENT NUMBER:6**

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

**Program code**

```
<!DOCTYPE html>
<html><head>
<script>
function validateForm() {
var x = document.forms["myForm"]["fname"].value;
if (x == "") {
alert("Name must be filled out");
return false;
}
var q = document.forms["myForm"]["address"].value;
if (q == "") {
alert("address must be filled out");
return false;
}
var w = document.forms["myForm"]["city"].value;
if (w == "") {
alert("city must be filled out");
return false;
}
var u = document.forms["myForm"]["state"].value;
if (u == "") {
alert("state must be filled out");
return false;
}
var u = document.forms["myForm"]["pincode"].value;
if (u == "") {
alert("pincode must be filled out");
return false;
}
var u = document.forms["myForm"]["mobile"].value;
if (u == "") {
alert("mobile number must be filled out");
return false;
}
var u = document.forms["myForm"]["mail id"].value;
if (u == "") {
alert("mail id must be filled out");
return false;
}
}
}
</script></head>
<body>
```

```

<form name="myForm" action="/action_page_post.php"
onsubmit="return validateForm()" method="post">
Name: <input type="text" name="fname"><br><br><br>
Adress:<textarea name= "address" rows="5" cols="25" ></textarea><br><br><br>
City:<input type="text" name="city" ><br><br><br>
State:<input type="text" name="state" ><br><br><br>
Pin Code:<input type="text" name="pincode" ><br><br><br>
Mobile Number:<input type=text name="mobile" > <br><br><br>
Date of Birth:<input type="date" name=dob ><br><br><br>
Email id:<input type="email" name="mail id" > <br><br><br>
Gender:<input type="radio" name="Male" >male
      <input type="radio" name="Female"> female<br></br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>

```

### output

The screenshot shows a web browser window with two tabs: 'form.html?fname=afsdzf' and 'validation.html'. The active tab is 'validation.html', which displays a form with the following fields: Name, Address, City, State, Pin Code, Mobile Number, Date of Birth, Email id, and Gender (radio buttons for male and female). A 'Submit' button is located at the bottom of the form. A modal dialog box is open in the center of the screen, displaying the message 'This page says Name must be filled out' with an 'OK' button.

**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 arrayindexof, 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 Properties</h2>

<p>The length property returns the length of a
string:ABCDEFGHIJKLMNOPQRSTUVWXYZ</p>
<p id="demo"></p>
<script>
let text = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
document.getElementById("demo").innerHTML = text.length;
</script>

<p>The slice() method extract a part of a string
and returns the extracted parts in a new string:Apple, Banana, Kiwi</p>
<p id="de"></p>
<script>
let str = "Apple, Banana, Kiwi";
document.getElementById("de").innerHTML = str.slice(7,13);
</script>

<p>The substring() method extract a part of a string and returns the extracted parts in
a new string:Apple, Banana, Kiwi</p>
<p id="dem"></p>
<script>
let str1 = "Apple, Banana, Kiwi";
document.getElementById("dem").innerHTML = str1.substring(7,13);
</script>
```



<p>The substr() method extract a part of a string and returns the extracted parts in a new string:Apple, Banana, Kiwi</p>

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

<script>

let str2 = "Apple, Banana, Kiwi";

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

</script>

<p>Replace "Microsoft" with "W3Schools" in the paragraph below:</p>

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

<p id="demo2">Please visit Microsoft!</p>

<script>

function myFunction1() {

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

document.getElementById("demo2").innerHTML =

text1.replace("Microsoft","W3Schools");

}

</script>

<p>Convert string to upper case:Hello World!</p>

<button onclick="myFunction2()">Try it</button>

<p id="demo3">Hello World!</p>

<script>

function myFunction2() {

let text2 = document.getElementById("demo3").innerHTML;

document.getElementById("demo3").innerHTML =

text2.toUpperCase();

}

</script>

<p>Convert string to lower case:Hello World!</p>

<button onclick="myFunction3()">Try it</button>

<p id="demo4">Hello World!</p>

<script>

function myFunction3() {

let text3 = document.getElementById("demo4").innerHTML;

document.getElementById("demo4").innerHTML =

text3.toLowerCase();

}

</script>

<p>The concat() method joins two or more strings:Hello,World!</p>

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

```

<script>
let text4 = "Hello";
let text5 = "World!";
let text6 = text4.concat(" ",text5);
document.getElementById("demo5").innerHTML = text6;
</script>

```

```

<p>The trim() Method</p>
<p id="demo6"></p>
<script>
let text7 = "  Hello World!  ";
let text8 = text7.trim();
document.getElementById("demo6").innerHTML =
"Length text7=" + text7.length + "<br>Length8 text8=" + text8.length;
</script>

```

```

<p>The charAt() method returns the character at a given position in a string:</p>
<p id="demo7"></p>
<script>
var text9 = "HELLO WORLD";
document.getElementById("demo7").innerHTML = text9.charAt(0);
</script>

```

```

<p>Display the first array element, after a string split:</p>
<p id="demo8"></p>
<script>
let text10 = "a,b,c,d,e,f";
const myArray = text10.split(",");
document.getElementById("demo8").innerHTML = myArray[0];
</script>

```

```

<p>The indexOf() method returns the position of the first occurrence of a specified text:</p>
<p id="demo9"></p>
<script>
let str3 = "Please locate where 'locate' occurs!";
document.getElementById("demo9").innerHTML = str3.indexOf("locate");
</script>

```

```

<p>The search() method returns the position of the first occurrence of a specified text in a string:</p>
<p id="demo10"></p>
<script>
let str4 = "Please locate where 'locate' occurs!";

```

```

document.getElementById("demo10").innerHTML = str4.search("locate");
</script>

<p>Check if a string includes "world":</p>
<p id="demo11"></p>
<p>The includes() method is not supported in Internet Explorer.</p>
<script>
let text11 = "Hello world, welcome to the universe.";
document.getElementById("demo11").innerHTML = text11.includes("world");
</script>

<h2>JavaScript Math.round()</h2>
<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>
<p id="demo12"></p>
<script>
document.getElementById("demo12").innerHTML = Math.round(4.5);
</script>

<p>Math.ceil() rounds a number <strong>up</strong> to its nearest integer:</p>
<p id="demo13"></p>
<script>
document.getElementById("demo13").innerHTML = Math.ceil(4.4);
</script>

<p>Math.floor(x) returns the value of x rounded <strong>down</strong> to its
nearest integer:</p>
<p id="demo14"></p>
<script>
document.getElementById("demo14").innerHTML = Math.floor(4.7);
</script>

<p>Math.trunc(x) returns the integer part of x:</p>
<p id="demo15"></p>
<script>
document.getElementById("demo15").innerHTML = Math.trunc(4.7);
</script>

<p>Math.sign(x) returns if x is negative, null or positive:</p>
<p id="demo16"></p>
<script>
document.getElementById("demo16").innerHTML = Math.sign(4);
</script>

```

```

<p>Math.pow(x,y) returns the value of x to the power of y:</p>
<p id="demo17"></p>
<script>
document.getElementById("demo17").innerHTML = Math.pow(8,2);
</script>

```

```

<p>Math.sqrt(x) returns the square root of x:</p>
<p id="demo18"></p>
<script>
document.getElementById("demo18").innerHTML = Math.sqrt(64);
</script>

```

```

<p>Math.abs(x) returns the absolute (positive) value of x:</p>
<p id="demo19"></p>
<script>
document.getElementById("demo19").innerHTML = Math.abs(-4.4);
</script>

```

```

<p>Math.sin(x) returns the sin of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demo20"></p>
<script>
document.getElementById("demo20").innerHTML =
"The sine value of 90 degrees is " + Math.sin(90 * Math.PI / 180);
</script>

```

```

<p>Math.cos(x) returns the cosine of x (given in radians):</p>
<p>Angle in radians = (angle in degrees) * PI / 180.</p>
<p id="demo21"></p>
<script>
document.getElementById("demo21").innerHTML =
"The cosine value of 0 degrees is " + Math.cos(0 * Math.PI / 180);
</script>

```

```

<p>Math.min() returns the lowest value in a list of arguments:</p>
<p id="demo22"></p>
<script>
document.getElementById("demo22").innerHTML =
Math.min(0, 150, 30, 20, -8, -200);
</script>

```

```

<p>Math.max() returns the highest value in a list of arguments.</p>
<p id="demo23"></p>
<script>

```

```

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

<p>Math.random() returns a random number between 0 and 1:</p>
<p id="demo24"></p>
<script>
document.getElementById("demo24").innerHTML = Math.random();
</script>

<p>Math.log() returns the natural logarithm of a number:</p>
<p id="demo25"></p>
<script>
document.getElementById("demo25").innerHTML = Math.log(1);
</script>
</body>
</html>

```

## output

### JavaScript String Properties

The length property returns the length of a string:ABCDEFGHIJKLMNOPQRSTUVWXYZ

26

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

Banana

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

Banana

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

Banana

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

Try it

Please visit W3Schools!

Convert string to upper case:Hello World!

Try it

HELLO WORLD!

Convert string to lower case:Hello World!

Try it

hello world!

The concat() method joins two or more strings:Hello,World!

Hello World!

The trim() Method

Length text7=22

Length8 text8=12

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

H

Display the first array element, after a string split:

a

The indexOf() method returns the position of the first occurrence of a specified text:

7

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

7

Check if a string includes "world":

true

The includes() method is not supported in Internet Explorer.

## JavaScript Math.round()

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

5

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

5

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

4

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

4

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

1

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

64

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

8

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

4.4

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.cos(x) returns the cosine of x (given in radians):

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

The cosine value of 0 degrees is 1

Math.min() returns the lowest value in a list of arguments:

-200

Math.max() returns the highest value in a list of arguments.

150

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

0.8046829287787244

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

0

## 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>

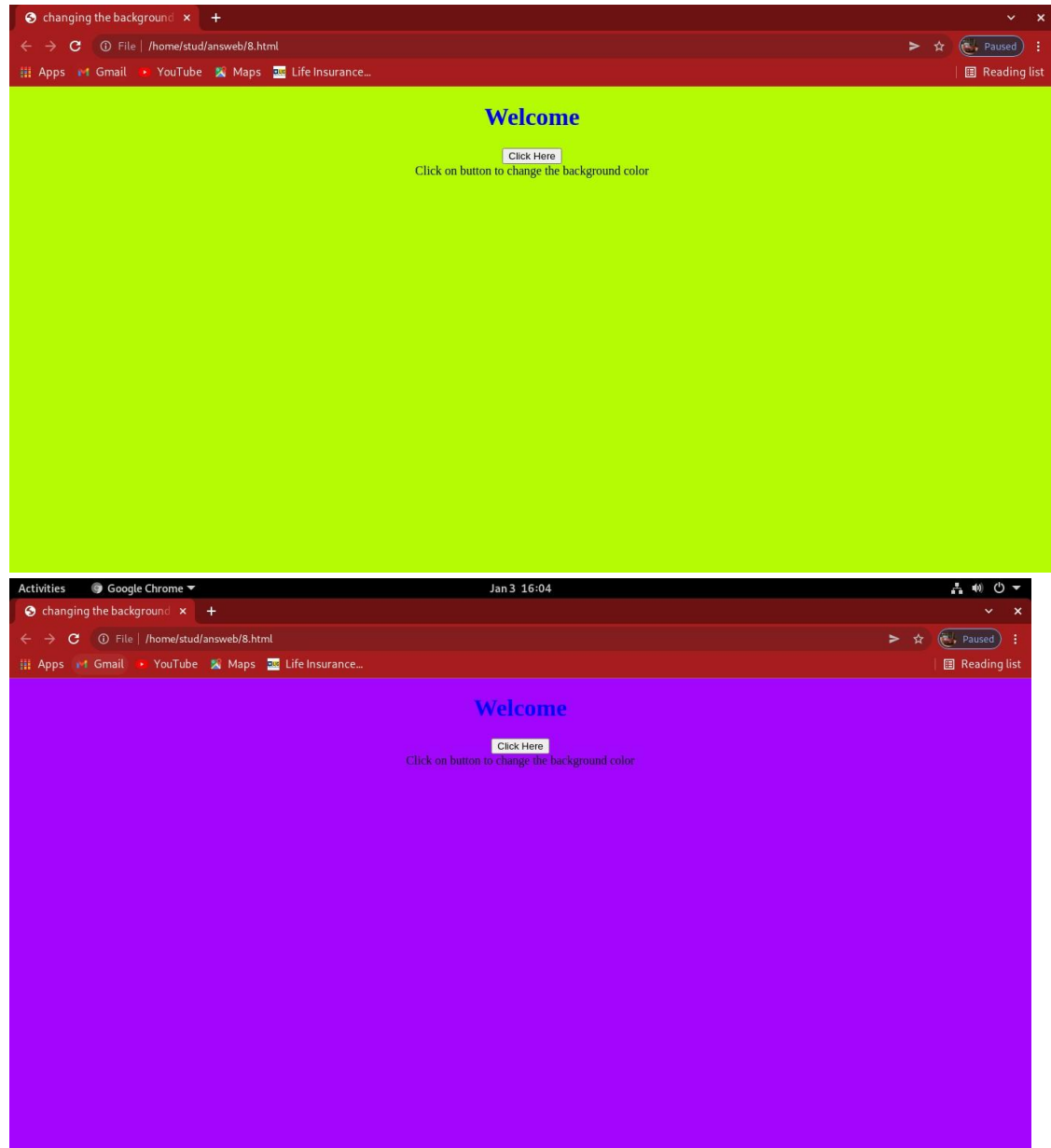
<body style = "text-align:center;">
<h1 style = "color:blue;" >
Welcome
</h1>
<button type="button" id="color-button" onclick="changeBg()">Click Here
</button>
<br>

<script>
document.writeln( "Click on button to change the background color"); const
pageBody = document.querySelector("body");
function changeBg()
{
let color = '#'+(Math.random()*0xFFFFFFFF<<0).toString(16);
pageBody.style.background = color;
}

</script>
</body>
```



**output**



**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: grey;
}
</style>
</head>

<body>
<b>CALENDAR</b><br>
Enter The year : <input type="number" name="cal" id="cal" /><br>
Enter The Month: <input type="number" name="month" id="month" />
<br>
<button onclick="calculate()">Click here</button>

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

<script>

function calculate() {

    var year = document.getElementById("cal").value;
    var month = document.getElementById("month").value;
    createCalendar(year,month);
}

function getDay(date)
{ let day =
date.getDay();

```

```

    if (day == 0) day = 7;
    return day - 1;
}

function createCalendar(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>';
  document.getElementById("calendar").innerHTML = table;
}

createCalendar(calendar, year, month);
</script>
</body>
</html>

```

output:

**CALENDAR**

Enter The year : 2020

Enter The Month: 2

Click here

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	*

## 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 action="ebill.php" method="post">
customer name: <input type="text" name="name"><br><br>
customer id: <input type="number" name="cid"><br><br>
electricity consumed: <input type="number" name="ec"> <br>
<input type="submit">
</form>
```

ebill.php

```
<h1>ELECTRICITY BILL</h1>
<br>
coustomer name:
<?php
```

```

echo $_POST["name"];
?>
<br>
coustomer id:
<?php
echo $_POST["cid"];
?>
<br>
electricity consumed:
<?php
echo $_POST["ec"];
?>
<br>
<br>
<b>Your amount is:
<?php
echo $_POST["ec"] * 10;
?>

```

**output:**

---

customer name:

customer id:

electricity consumed:

---

## ELECTRICITY BILL

coustomer name: ann  
 coustomer id: 343  
 electricity consumed: 123

**Your amount is: 1230**

**EXPERIMENT NUMBER: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.

**Program code**

```
<?php
$stud=array("Ansa","Ani","Aadhu");
echo "List of Students";
echo "<br>";
print_r($stud);
echo "<br>";
echo "Sorted list:";
echo "<br>";
asort($stud);
print_r($stud);
echo "<br>";
echo "Reverse list:";
echo "<br>";
arsort($stud);
print_r($stud);
?>
```

**Output**

```
List of Students
Array ( [0] => Ansa [1] => Ani [2] => Aadhu )
Sorted list:
Array ( [2] => Aadhu [1] => Ani [0] => Ansa )
Reverse list:
Array ( [0] => Ansa [1] => Ani [2] => Aadhu )
```

**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

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 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****bookinginfo.html**

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

**add\_book.html**

```
<html><head>
<title>add book</title></head>
<body>
<form name="frm1" action="addl.php" method="POST">
<center><b><u>Enter Book Details</u></b><br>
Access number:<input type="number" name="num"><br>
Title:<input type="text" name="tit"><br>
Author:<input type="text" name="author"><br>
Edition:<input type="number" name="edi"><br>
Publisher:<input type="text" name="pub"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

**addl.php**

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

```

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

```

### **search.html**

```

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

```

### **searchl.html**

```

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

```

```

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

```

**output****BOOK INFORMATION SYSTEM**[Add Book](#)[Search Book](#)**Enter Book Details**

Access number:	<input type="text" value="56"/>
Title:	<input type="text" value="antoparl"/>
Author:	<input type="text" value="anthony"/>
Edition:	<input type="text" value="5"/>
Publisher:	<input type="text" value="2018"/>
<input type="button" value="Submit Query"/> <input type="button" value="Reset"/>	

connected 2:thomasonland:tom:2:deepaka

**SEARCH A BOOK**

Enter book title: thomasonland

Submit Query

```

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

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

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

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

MariaDB [fisatdb]> desc book;

```

```

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

MariaDB [fisatdb]> select * from Book;
ERROR 1146 (42S02): Table 'fisatdb.Book' doesn't exist
MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title      | author      | edition | publisher |
+-----+-----+-----+-----+-----+
| 1022            | Alchemist | Paulo Choelo | 2018    | DC Books  |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

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

```



```

stud@debian: ~
+-----+-----+-----+-----+-----+
| 1022 | Alchemist | Paulo Choelo | 2018 | DC Books |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title          | author      | edition | publisher |
+-----+-----+-----+-----+-----+
| 1022 | Alchemist      | Paulo Choelo | 2018    | DC Books   |
| 2011 | Fault in our Stars | Jhon Green  | 2018    | DC         |
+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)

MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title          | author      | edition | publisher |
+-----+-----+-----+-----+-----+
| 2 | thomasonland    | tom         | 2        | deepaka    |
| 1022 | Alchemist      | Paulo Choelo | 2018    | DC Books   |
| 2011 | Fault in our Stars | Jhon Green  | 2018    | DC         |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)

```

```

stud@debian: ~
+-----+-----+-----+-----+-----+
| 1022 | Alchemist | Paulo Choelo | 2018 | DC Books |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title          | author      | edition | publisher |
+-----+-----+-----+-----+-----+
| 1022 | Alchemist      | Paulo Choelo | 2018    | DC Books   |
| 2011 | Fault in our Stars | Jhon Green  | 2018    | DC         |
+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)

MariaDB [fisatdb]> select * from book;
+-----+-----+-----+-----+-----+
| accession_number | title          | author      | edition | publisher |
+-----+-----+-----+-----+-----+
| 2 | thomasonland    | tom         | 2        | deepaka    |
| 1022 | Alchemist      | Paulo Choelo | 2018    | DC Books   |
| 2011 | Fault in our Stars | Jhon Green  | 2018    | DC         |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)

MariaDB [fisatdb]>

```

**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**airlineinfo.html

```
<html>
<head>
<title>airline</title>
</head>
<body align="center"><u>AIRLINE INFORMATION SYSTEM</u><br>
<a href="add_airlineinfo.html">Add AIRLINE DETAILS</a><br>
<a href="search1.html">Search AIRLINE DETAILS</a><br>
</body>
</html>
```

add\_airlineinfo.html

```
<html><head>
<title>add airline</title></head>
<body>
<form name="frm1" action="addair.php" method="POST">
<center><b><u>Enter Airline Details</u></b><br>
AIRLINE ID:<input type="number" name="id"><br>
AIRLINE NAME:<input type="text" name="name"><br>
DEPARTURE FROM:<input type="text" name="depfrom"><br>
DEPARTURE TIME:<input type="number" name="deptime"><br>
AIRIVAL TIME:<input type="number" name="aritime"><br>
AIRIVAL PLACE:<input type="text" name="aripace"><br>
<input type="submit" name="Submit">
<input type="reset" name="Reset">
</form>
</body>
</html>
```

addair.php

```
<?php
$id=$_POST['id'];
$name=$_POST['name'];
$depfrom=$_POST['depfrom'];
```

```

$deptime=$_POST['deptime'];
$airtime=$_POST['airtime'];
$airplace=$_POST['airplace'];
$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected";
}
$sql="INSERT INTO airline
VALUES($id,$name,$depfrom,$deptime,$airtime,$airplace)";
if($con->query($sql))
{
echo "<BR>";
echo 'New row added';
}
else
{
echo "ERROR:could not execute query";
}
$con->close();
?>

```

#### search1.html

```

<html>
<head>
<title>search</title>
</head>
<body>
<form name="frm2" action="search1.php"method="POST">
<center>
<b><u>SEARCH AIRLINE</u></b><br>
DEPARTURE FROM:<input type="text" name="txt"><br>
ARIVAL PLACE:<input type="text" name="txt1"><br>
<input type="submit" name="Submit">
</center>
</form>
</body>
</html>

```

#### search1.php

```

<?php
$depfrom=$_POST['txt'];
$airplace=$_POST['txt1'];

```

```

$con=new mysqli("localhost","fisat","fisat","fisatdb");
if($con==false)
{
echo "Failed to connect";
}
else
{
echo "connected\n";
}
$sql="select * from airline where depfrom='$depfrom' and airplace='$ariplace' ";
if($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 airline";
}
}
else
{
echo "\nError:could not connect";
}
$con->close();
?>

```

**output:**

**AIRLINE INFORMATION SYSTEM**

**Add AIRLINE DETAILS**

**Search AIRLINE DETAILS**

s



### Enter Airline Details

AIRLINE ID: 23

AIRLINE NAME: airindia

DEPARTURE FROM: ernakulam

DEPARTURE TIME: 10

AIRIVAL TIME: 1

AIRIVAL PLACE: mumbai

Submit Query Reset

connected  
New row added

### SEARCH AIRLINE

DEPARTURE FROM: ernakulam

ARIVAL PLACE: mumbai

Submit Query

connected 22:airindia:ernakulam:10:2

1

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

```
MariaDB [fisatdb]> desc airline;
ERROR 1146 (42S02): Table 'fisatdb.airline' doesn't exist
MariaDB [fisatdb]> desc airline;
```

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

6 rows in set (0.001 sec)

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

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

2 rows in set (0.000 sec)

```
MariaDB [fisatdb]> █
```