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MCA - a . SI

Roll no: 24

Web Programming

Lab Record

12/11

2021

Program no: 1, cont

Aim: Model a simple HTML file to demonstrate
the use of different tags.

Program:

```
<html>
  <head>
    <title> HTML Page </title>
  </head>

  <body>
    <h1> Some HTML Tags </h1>
    <h1> Heading tag </h1>
    <b> <h1> Bold tag </h1> </b>
    <i> <h1> Italic tag </h1> </i>
    <u> <h1> Underline tag </h1> </u>
    <p> Paragraph tag </p>
    <ul> Unordered List </ul>
    <ul>
      <li> First element </li>
      <li> Second element </li>
      <li> Third element </li>
    </ul>
```

```
<label> Ordered List </label>
<ol>
  <li> First element </li>
  <li> Second element </li>
  <li> Third element </li> </ol>

<label> Hyper Link </label>
<a href = "link.html"> Click <a><br>

<label> Image tag </label>
<img src = "link.jpg" alt = "img"/><br>

<label> Form and Input tag </label>
<form>
  <input type = "text">
  <input type = "submit">
</form>

<label> Table tag </label>
<table border = "1"> <tr> <th> Heading 1 </th>
  <th> Heading 2 </th> </tr> <tr> <td> Column 1 </td>
  <td> Column 2 </td> </tr>
</table> </html>
```

Result :

The program has been executed and the output was verified.

Output :

HTML Page

Some HTML Tags

Heading tag

Bold Tag

Italic tag

Underline tag

Paragraph tag

Unordered List

- First element
- Second element
- Third element

Ordered List

1. First element
2. Second element
3. Third element

Hyper Link

click

Image tag

img

Form and Input tag

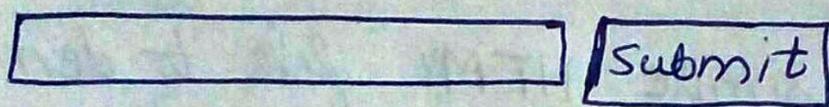


Table tag

Heading 1	Heading 2
Column 1	Column 2

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Program no: 2 , cot 2

Aim : Create a HTML file to link to different HTML page which contains images, tables, and also link within a page .

Program:

link.html

```
<html>
<head>
<title> Links </title>
</head>

<body>
<h1> <a href = " hyperlink.html " > Link to another page </a></h1>
<h2> <a href = " img.html " > Link to an image </a> </h2>
<h3> <a href = " table.html " > Link to a table </a> </h3>
</body>

</html>
```

hyperlink.html

```
<html>
<head> <title> Hyperlink </title> </head>
<body>
<a href = " link.html " > Link to original page </a>
</body>

</html>
```

img.html

```
<html>
<head> <title> Images </title> </head>

<body>
<img src = "cloud.jpg" alt = "cloud">
<img src = "nature.jpg" alt = "nature">
<img src = "road.jpg" alt = "road">

</body> </html>
```

table.html

```
<html>
<head> <title> Tables </title> </head>

<body>
<table border = "1">

<tr>
<th> Number </th>
<th> Name </th>
<th> Ph number </th>
<th> Email </th>
<th> Address </th>

</tr>
```

```
<tr>
<td> 1 </td>
<td> Anond </td>
<td> 9870786540 </td> .
<td> Anond@gmail.com </td>
<td> House, city, PO, district </td>

</tr>
<tr>
<td> 2 </td>
<td> Aravind </td>
<td> 7895679087 </td> .
<td> Arav@gmail.com </td> ,
<td> House, city, PO, Idukki </td>

</tr>
</table>
</body> </html>
```

Result :

The program has been executed and the output was verified .

Output :

.) link.html

Links

Link to another page

Link to an image

Link to a table

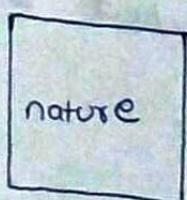
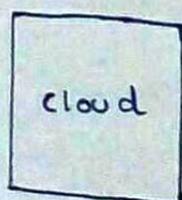
.) hyperlink.html

Hyperlink

Link to original page

.) img.html

Images





) table.html

Tables

Number	Name	Ph number	Email	Address
1	Anond	9870786540	Anond@gmail.com	House, City, PO, district
2	Agravind	7895679087	Agra@gmail.com	House, City PO, Idukki

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Program no: 3

col 3

Aim: Create HTML page using frameset tags.

Program:

```
frame - html
<html>
  <head><title> HTML frameset tag </title> </head>
  <frameset cols = " 200, 200, 400, 400 ">
    <frame src = " link.html" name = " menu-page"/>
    <frame src = " img.html" name = " main-page"/>
    <frame src = " table.html" name = " page"/>
    <frame src = " emp.html" name = " mainpage"/>
    <noframes>
      <body>
        Your browser does not support frames.
      </body>
    </noframes>
  </frameset>
</html>
```

Output:

frame.html	img.html	table.html												
<p>Hyper link</p> <p>Click Here</p>	<p>Images</p>	<p>Employ details</p> <p>Table</p> <table border="1"> <thead> <tr> <th>Number</th><th>Name</th><th>Ph number</th><th>Email</th></tr> </thead> <tbody> <tr> <td>1</td><td>Arovind</td><td>987070 6916</td><td>Ara@gmail.com</td></tr> <tr> <td>2</td><td>Anand</td><td>767879 1016</td><td>An@gmail.com</td></tr> </tbody> </table>	Number	Name	Ph number	Email	1	Arovind	987070 6916	Ara@gmail.com	2	Anand	767879 1016	An@gmail.com
Number	Name	Ph number	Email											
1	Arovind	987070 6916	Ara@gmail.com											
2	Anand	767879 1016	An@gmail.com											

↓
Continue

continue

emp.html

Registration Form

First Name

Last Name

Date of Birth mm/dd/yy

Select position

Gender Male Female

Email

Ph number

Address

Program no: 4

col 4

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Aim:

Analyze CSS by applying the different styles using inline, external & internal style sheet in on HTML file.

Program:

cssproperty.html

```
<html>
<head>
<link rel = "stylesheet" type "text/css" href = "external.css"
      <!-- External css -->
<style>
<!-- Internal css is used -->
label {
    font-family: Helvetica, sans-serif;
    color: yellow;
}

input {
    border: 2px solid black;
    width: 100%;
    padding: 12px 20px;
    margin: 8px 0;
    box-sizing: border-box;
}

</style>
</head>
```

```
<body>
  <h1 style = " color: red ; text-align: center;">
    Registration Form </h1>   <!-- inline CSS -->

  <h2> Overline Uppercase </h2>
  <h3> Text underline </h3>
  <h4> welcome </h4>

  <label class = " nome "> Nome </label>
  <input type = " text " placeholder = " Nome " > <br>

  <label> Date of Birth </label>
  <input type = " date " > <br>

  <label> Gender </label>
  <select style = " width: 100%; background-color: lightblue;
                    color: black; margin: 8px 0; height: 40px;">
    <option value = " Male "> Male </option>           <!-- inline CSS -->
    <option value = " Female "> Female </option>
    <option value = " Other "> Other </option>
  </select> <br>

  <label> Address </label> <br>
  <textarea rows = " 4 " cols = " 30 " style = " width: 100%;
                                                height: 150px;">
```

```
box-sizing: border-box;  
border: 2px solid black;           <!-- Inline CSS -->  
border-radius: 4px;  
resize: none;">  
</text area><br> <button>Submit </button>  
</body>  
</html>
```

external.css

```
body {  
background-image: url ("cloud.jpg");  
background-repeat: no-repeat;  
background-position: center;  
background-size: cover; }  
  
h1 { border: solid;  
border-width: thick;  
border-radius: 20px; }  
  
h2 { text-decoration: overline;  
text-transform: uppercase;  
word-spacing: 10px; }  
  
h3 { text-decoration: underline;  
letter-spacing: 5px;  
text-shadow: 2px 2px red; }
```

```
h4 {  
    margin - bottom : 10px ;  
    margin - top : 10px ;  
    margin - left : 550px ;  
    margin - right : 10px ;  
    font - size : 40px ;  
    text - transform : capitalize ;  
    color : grey ; }  
.
```

```
name {  
    color : yellow ; }
```

```
button {  
    background - color : green ;  
    border : none ;  
    color : white ;  
    padding : 16px 32px ;  
    text decoration : none ;  
    margin : 4px 2px ;  
    cursor : pointer ; }  
}
```

Result:

The program has been executed and output was verified

Output:

css property .html

Registration Form

OVERLINE UPPERCASE

Text underline

Welcome In capitalize

Name

Date of Birth

Gender

Male

Address

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Program no: 5

COI 5

Aim: Demonstrate a registration form using
HTML.

Program:

```
<html>
<head> <title> College Registration Form </title></head>

<body>
<h1> College Registration Form </h1>

<form>
<input type = "text" placeholder = "Name"><br>
<input type = "date" placeholder = "Date of birth"><br>
<input type = "text" placeholder = "Father's Name"> <br>
<input type = "text" placeholder = "Occupation"> <br>
<input type = "text" placeholder = "Mother's Name"> <br>
<input type = "text" placeholder = "Occupation"> <br>

<label> Select Course </label>

<select>
<option value = "BCA"> BCA </option>
<option value = "Mech"> Mech </option>
<option value = "Civil"> CSE </option>
<option value = "CSE"> CSE </option>
<option value = "BBA"> BBA </option>
<option value = "Bcom"> Bcom </option>
<option value = "BA English"> BA English </option> </select>
```

```
<label> Gender </label>
<select> <option value = "Male"> Male </option>
          <option value = "Female"> Female </option>
          <option value = "Other"> Other </option>
</select><br>

<input type = "email" placeholder = "email"/><br>
<input type = "number" placeholder = "Phone Number"/><br>
<label> Residential Address </label>
<textarea rows = "4" cols = "30">
</textarea>
<label> Permanent Address </label>
<textarea rows = "4" cols = "30">
</textarea>
<input type = "text" placeholder = "Nationality"/><br>
<input type = "text" placeholder = "State." /><br>
<input type = "text" placeholder = "District"/><br>
<input type = "number" placeholder = "PIN"/> <br>

<h2> Qualifications </h2>
<label> <b> 10 th </b> </label> <br>
<input type = "text" placeholder = "Name of School"/><br>
<input type = "text" placeholder = "Place"/><br>
```

```
<label> <select>
    <option value = " state "> state </option>
    <option value = " cbse "> cbse </option>
    <option value = " icse "> icse </option>
</select><br>

<label> Marks in percentage or grade </label>
<select>
    <option value = " Percentage "> Percentage </option>
    <option value = " Grade "> Grade </option>
</select><br>

<label> Scanned Certificate </label>
<input type = " file " ><br>

<label> <b> 12 th </b> </label> <br>

<input type = " text " placeholder = " School Name " ><br>
<input type = " text " placeholder = " Place " ><br>

<select>
    <option value = " state "> state </option>
    <option value = " cbse "> cbse </option>
    <option value = " icse "> icse </option>
</select><br>

<input type = " text " placeholder = " Stream " ><br>

<label> Marks in percentage and or grade </label>
<select> <option value = " Percentage "> Percentage </option>
    <option value = " Grade "> Grade </option>
</select>

<input type = " number " placeholder = " Marks " > <br>
```

```
<label> Scanned certificate </label>
<input type = "file" placeholder = "IDM certificate"><br>
<button> Submit </button>
</form> </body> </html>
```

Result:

The program has been executed and the output
verified.

Output :

College Registration Form

Name of Student
Date of Birth <input type="text"/>
Father's Name
Occupation
Mother's Name
Occupation

Select Course

B	C	A	<input checked="" type="checkbox"/>
---	---	---	-------------------------------------

Gender

Male	<input checked="" type="checkbox"/>
------	-------------------------------------

Email

Contact No:

Residential Address

--

Output :

College Registration Form

Name of Student
Date of Birth <input type="text"/>
Father's Name
Occupation
Mother's Name
Occupation

Select course

B C A	<input checked="" type="checkbox"/>
-------	-------------------------------------

Gender

Male	<input checked="" type="checkbox"/>
------	-------------------------------------

Email

Contact No:

Residential Address

--

Permanent Address

Nationality
State
District
PIN

Qualification

10th

Name of School
Place

State / cbse / ics

State

Marks in percentage or grade

Percentage

Mark

Scanned certificate

Choose File

No file chosen

12 th

School Name
Place

State / cbse / icse

State	✓
-------	---

Stream

Marks in percentage or grade

Percentage	✓
------------	---

Marks

Scanned certificate

Choosen File

No file choosen

SUBMIT

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Program no: 6

Aim: Prime Numbers between 1 and 100

Program:

```
<html> <head>  
    <title> Prime Numbers between 1 and 100 </title>  
  
<script>  
    var i, n, flag  
    document.write("Prime numbers between 1 and 100 are :")  
    document.write("<br>")  
    for (n=1, n<=100; n++) {  
        flag = 0  
        for (i=2; i<n/2; i++) {  
            if (n%i == 0) {  
                flag++;  
                break;  
            }  
        }  
        if (flag == 0 && n != 1) {  
            document.write(n + ", ")  
        }  
    }  
</script> </head>  
<body> </body> </html>
```

Result:

The program has been executed and the output verified.

Output

Prime Numbers between 1 and 100 :

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41,
43, 47, 53, 59, 61, 67, 71, 73, 79, 83,
89, 97,

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Program No: 7

Aim: Program to find the count of letter 'e' in a given string

Program:

```
<html> <head>

<script>

function string() {
    var a = document.getElementById("o")
    document.write("The string Entered is: ")
    document.write("<br/>" + a.value + "<br/>")

    var j = 0
    for (i in a.value) {
        if (a.value[i] == 'e' || a.value[i] == 'E') {
            j++
        }
    }
    document.write("The number of times letter 'e' "
        "occurred is: <br/>")
    document.write(j)
}

</script>

</head>
```

```
<body>
```

```
<h1> Program to find the count of letter 'e' in  
a given string </h1>
```

```
<label> Enter the string </label>
```

```
<input type = "text" id = "0" >
```

```
<input type = "submit" onclick = "string()" >
```

```
</body>
```

```
</html>
```

Result:

The program is executed and the output was
verified.

Output

Program to find the count of letter 'e' in a given string

Enter a string :

submit

The string Entered is :

hello elephont

The number of times 'e' occurs is : 3

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Program no: 8

Aim : Program to get Even Numbers between
1 and 100 are : "

Program :

```
<html> <head>
<title> Javascript Programs </title>

<script>
var e = 0
document.write ("Even numbers between 1 and 100
are : <br/>")

var i
for (i=1, i<=100 ; i++) {
    if (i%2 == 0) {
        document.write (i+",")
    }
}
</script>

</head> <body>
</body> </html>
```

Result :

The program has been executed and the output
verified.

Output:

Even numbers between 1 and 100 are :

2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24,
26, 28, 30, 32, 34, 36, 38, 40, 42, 44,
46, 48, 50, 52, 54, 56, 58, 60, 62, 64
66, 68, 70, 72, 74, 76, 78, 80, 82, 84,
86, 88, 90, 92, 94, 96, 98, 100

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Program no: 9

Aim:

Program to find the Total mark of 5 subjects.

Program:

```
<html>
<head> </head>

<body> <h1> Total Mark out of Five Subjects </h1>

<input type="number" id="m1", placeholder = "Mark of
subject 1">

<input type="number" id="m2", placeholder = "Mark of
subject 2">

<input type="number" id="m3", placeholder = "Mark of
subject 3">

<input type = "number" id="m4", placeholder = "Mark of
subject 4">

<input type = "number" id="m5", placeholder = "Mark of
subject 5">

<input type = "submit" onclick = "fun()">

<label> Total marks of all 5 subjects are: </label>
<b><p id="total"> </p> </b>
```

```
<script>  
function fun1() {  
    var mark1 = document.getElementById("m1").value  
    var mark2 = document.getElementById("m2").value  
    var mark3 = document.getElementById("m3").value  
    var mark4 = document.getElementById("m4").value  
    var mark5 = document.getElementById("m5").value  
    var total = parseInt(mark1) + parseInt(mark2) +  
               parseInt(mark3) + parseInt(mark4) +  
               parseInt(mark5);  
    document.getElementById("total").innerHTML = total  
}
```

Result:

The results output has been exerted and
program is verified and executed.

Output

Total Marks out of Five Subjects

Mark of subject 1

55

Mark of subject 2

73

Mark of subject 3

60

Mark of subject 4

43

Mark of subject 5

31

Submit

Total marks of all 5 subjects are :

262

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Program no: 10

co2 1

Aim: Create a HTML page to explain the use of various predefined functions in a string and math object in-javascript.

Program:

```
<html>
<head> </head>
<body>
<p id = "demo"></p>
<p id = "l"></p>
<input type = "button" onclick = "funn()" >
<script>
var xz = ["Maruti", "Tata", "Mahindra"];
document.getElementById("demo").innerHTML += "Example of an array : " + xz,
var y = xz.sort();
document.getElementById("demo").innerHTML += "Sorted Array : " + y;
function funn() {
    var p = prompt ("Enter Your name : ", "Amala");
    if (p != null) {
        document.getElementById().innerHTML = "Hello" + p + "Hai"
    }
}
```

```
var xy = ["BMW", "Maruti", "hyundai", "Fiat", "Chevrolet"]
var t = ""
var i
for (i=0; i<xy.length; i++) {
    t += "<li>" + xy[i] + "</li>" }
```

document.getElementById("demo").innerHTML +=
"Array Element Listed : " + t;

```
var x = ["BMW", "Maruti", "hyundai", "Fiat", "Chevrolet"]
```

document.getElementById("demo").innerHTML +=
"Original array: " + x;

```
var z = ["Horse", "Lion", "Rabbit"]
```

```
var len = x.length
```

document.getElementById("demo").innerHTML +=
"Length of the array: " + len;

```
x.push("Lemon")
```

document.getElementById("demo").innerHTML +=
"Array after Lemon is pushed: " + x;

```
x[x.length] = "Chikku"
```

document.getElementById("demo").innerHTML +=
"Chikku is pushed to end using index: " + x;

```
x[3] = "Watermelon";  
document.getElementById("demo").innerHTML +=  
    " Element at index 3 is replaced : "+x;
```

```
x.pop();
```

```
document.getElementById("demo").innerHTML +=  
    " Pop Operation : "+x;
```

```
x.shift();
```

```
document.getElementById("demo").innerHTML +=  
    " Shift Operation : "+x;
```

```
x.unshift("Orange");
```

```
document.getElementById("demo").innerHTML +=  
    " Unshift Operation : "+x;
```

```
x.splice(2, 0, "Chikku", "Kiwi")
```

```
document.getElementById("demo").innerHTML +=  
    " Array after splice : "+x;
```

```
x.reverse();
```

```
document.getElementById("demo").innerHTML +=  
    " Array Elements Reversed : "+x;
```

```
var a = x.concat(z)
```

```
var y = x.toString();
```

```
document.getElementById("demo").innerHTML += "Second array : "+x;
```

```
document.getElementById("demo").innerHTML += "Concat both array "+a;
```

```
document.getElementById("demo").innerHTML += "Array convert to string : "+y;
```

document.getElementById ("demo").innerHTML = "Math
Operations";

document.getElementById ("demo").innerHTML +=
" Rounding a number : " + Math.round(2);

document.getElementById ("demo").innerHTML +=
" Power of 8 : " + Math.pow(8, 2);

document.getElementById ("demo").innerHTML +=
" PI value : " + Math.PI

document.getElementById ("demo").innerHTML +=
" Square root of 81 : " + Math.sqrt(81);

document.getElementById ("demo").innerHTML +=
" Absolute value of -81 : " + Math.abs(-81);

document.getElementById ("demo").innerHTML +=
" Ceiling value of 8.1 : " + Math.ceil(8.1);

document.getElementById ("demo").innerHTML +=
" Floor value of 8.1 : " + Math.floor(8.1);

document.getElementById ("demo").innerHTML +=
" Minimum value among 8, 3, 4, 67, 0 is : " + Math.min(8, 3, 4,
67, 0);

document.getElementById ("demo").innerHTML +=
" Maximum value among 8, 3, 4, 67, 0 is : " + Math.max(8, 3, 4, 67, 0);

document.getElementById ("demo").innerHTML += " Random values :
" + Math.random();

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

Result:

The program was executed and the output verified.

Output:

Example of an array: Maruti, Tata, Mahindra

Sorted array : Mahindra, Maruti, Tata

Array Element Listed :

- BMW
- Maruti
- hyundai
- Fiat
- Chevrolet

.) Original array : BMW, Maruti, hyundai, Fiat, Chevrolet

Length of array : 5

Array after Lemon is pushed : BMW, Maruti, hyundai, Fiat,
Chevrolet, Lemon

Chikku is pushed to end using index :

BMW, Maruti, hyundai, Fiat, Chevrolet,
Lemon, Chikku

Element at index 3 is replaced :

BMW, Maruti, hyundai, watermelon, Fiat
Chevrolet, Lemon, Chikku

Pop operation : BMW, Maruti, hyundai, watermelon, Chevrolet
Lemon

Shift operation : Maruti, hyundai, watermelon, Chevorlate,
Lemon

Unshift operation: Orange, Maruti, hyundai, Watermelon,
Chevorlate, Lemon

Array after Splice

Operation : Orange, Maruti, Chikku, Kiwi, hyundai,
watermelon, Chevorlate, Lemon

Array Element

Reversed : Lemon, Chevorlate, Watermelon, hyundai,
Kiwi, Chikki, Maruti, Orange

Second array : Horse, Lion, Rabbit

Concat both arrays : Lemon, Chevorlate, Watermelon, hyundai,
Kiwi, Chikki, Maruti, Orange, Horse, Lion,
Rabbit

Array convert to

String : Lemon, Chevorlate, Watermelon, hyundai,
Kiwi, Chikku, Maruti, Orange

Math Operation

Rounding an element : 2

Power of 8 : 64

PI value : 3.141592653589793

Square Root of 81 : 9

Absolute value of -81 : 81

Ceiling value of 8.1 : 9

Floor value of 8.1 : 8

Minimum value among 8, 3, 4, 67, 0 is : 0

Max value among 8, 3, 4, 67, 0 is : 67

Random value : 0.2812200718

This page says

Enter Your name:

Hello Amala !!!!

Math operation

Rounding an element : 2

Power of 8 : 64

PI value : 3.141592653589793

Square Root of 81 : 9

Absolute value of -81 : 81

Ceiling value of 8.1 : 9

Floor value of 8.1 : 8

Minimum value among 8, 3, 4, 67, 0 is : 0

Max value among 8, 3, 4, 67, 0 is : 67

Random value : 0.2812200718

This page says

Enter Your name:

Hello Amala Hai

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Program no: 11

CO2 3

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

Program:

```
<html>
<head>
<script>
function Validate() {
    /* validating email */
    var email = document.getElementById('email').value
    var valid = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,63}$/;
    if (email.match(valid)) {
        document.getElementById("emailp").innerHTML =
            "Valid Email"
    }
    else {
        document.getElementById("emailp").innerHTML =
            "Invalid Email";
        alert("Invalid Email");
    }
}
```

```

var phoneno = /\^{\{2([0-9]\{3\})\}\}?[-,]?([0-9]\{3\})[-,]?([0-9]\{4\})\$|,/;
var ph = document.getElementById("Ph").value
if (ph.match(phoneno))
{
    alert("Valid Phone number");
}
else
{
    alert("Phone number is Invalid");
}

/* validating date of birth between 5 and 50 years old */
var dt = document.getElementById("dt").value
if ("1972/01/01" < dt && dt < "2016/01/01")
{
    alert("Age is between 5 and 50");
}
else
{
    alert("Age is not between 5 and 50");
}

</script>

```

```
<body>
  <p> HTML form validates email, phnumber and dob </p>

  <form>
    <input type = "Name" placeholder = "Name" > <br>
    <label> Date of Birth </label>
    <input type = "date" , id = "dt" > <br>
    <input type = "text" placeholder = "Email" id = "email" >
    <br>
    <input type = "number" placeholder = "Phone number"
           id = "Ph" > <br>

    <button onclick = "ValidateEmail()" >
      SUBMIT
    </button>
  </form> </body> </html>
```

Result:

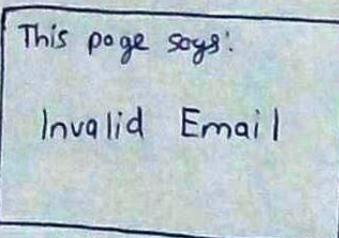
The program has been executed and output was verified.

Output

HTML form validates email, contact number and dob

If Invalid Email :



-> alert box

  // Invalid Email

Invalid Email

This page says :

Invalid Contact Number

-> alert box

None

mm/dd/yy 

Email

1 2 3 4 5

// Invalid Ph number

Submit

This page says :

Age between 5 and 50

-> alert box

Name

06/07/2012

-> // Age is between 5 and 50

Email

Phone number

Submit

10/21
2021

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

Program:

```

<html>
  <head> </head>

  <style>
    button {
      background-color: green;
      border: none;
      color: white;
      padding: 16px 32px;
      text-decoration: none;
      margin: 4px 2px;
      cursor: pointer; }     </style>

  <script>
    function Color() {
      var random = Math.floor(Math.random() * 16777215).toString(16);
      document.body.style.backgroundColor = "#" + random;
    }
  </script>

```

```
<body>
<center> <h1> Click the button to change body color </h1>
          </center>
<center> <button onclick = "Color1()"> Click </button>
          </center>

</body>
</html>
```

Result:

The program is executed and output was
verified.

Output:

Click the Button to change body color



10/21
2021

Program no: 13

co2 S

Aim: Create a HTML page to display a new image and text when the mouse comes over the existing content in the page using Javascript Event Handling.

Program:

```
<html>
<head> <script type = "text/javascript">
function over () {
    document.getElementById ('sec').innerHTML =
        "Mouse pointer is now over the div";
    document.getElementById ('contain').style
        backgroundImage = "url (cloud.jpg)";
}

function out () {
    document.getElementById ('sec').innerHTML =
        "Mouse pointer is now out of the div";
    document.getElementById ('contain').style
        backgroundImage =
            "url (galaxy.jpg)";
}
</script> </head>
```

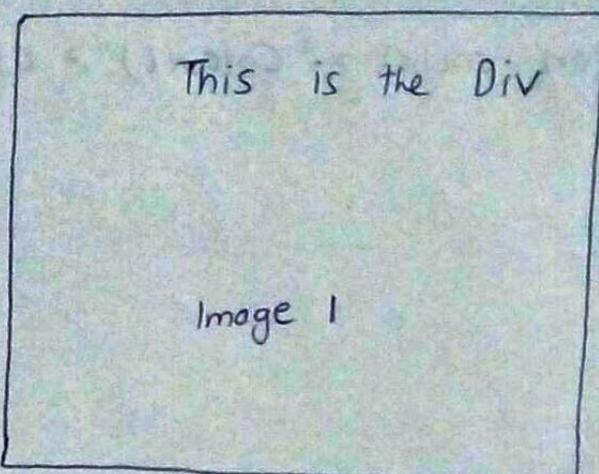
```
<body>  
<div style = "background-image: url('galaxy.jpg');  
height: 500px; "onmouseover = "over();"  
onmouseout = "out();" id = "contain">  
<center><h2 id = "sec" style = "color: black;">  
This is the Div </h2> </center>  
</div> </body> </html>
```

Result:

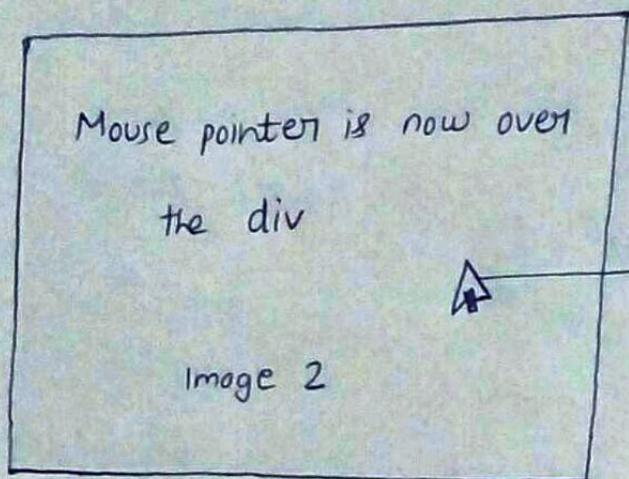
The program has been executed and the output
verified

Output

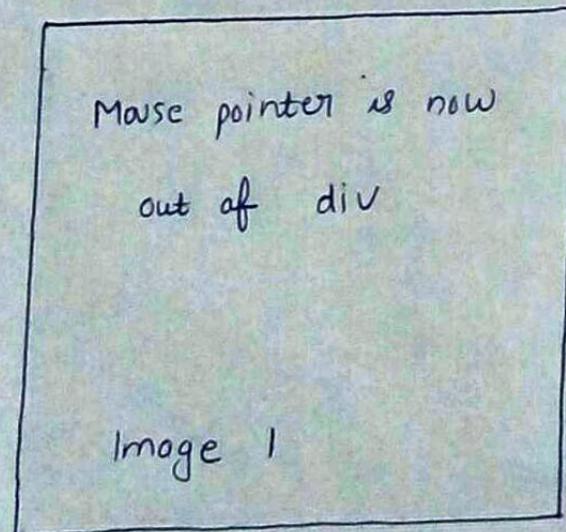
.)



.)



.)



Aim : Create HTML page to show online exam using Javascript.

Program :

<html>

<head></head> <body>

<h1> Online Quiz MCQ . Check answers and submit </h1>

<p> Q1 : what type of language Javascript is : </p>

<input type = "radio" name = "Q1" value = "a"> a. Object-based

<input type = "radio" name = "Q1" value = "b"> b. Object-Oriented

<input type = "radio" name = "Q1" value = "c"> c. High-Level

<p> Q2 : Which one of the following is also known as

conditional expression : </p>

<input type = "radio" name = "Q2" value = "a2"> a. switch

<input type = "radio" name = "Q2" value = "b2"> b. Immediate If

<input type = "radio" name = "Q3" value = "c2"> c. If-then-else

<p> Q3 : The function and var are known as : </p>

<input type = "radio" name = "Q3" value = "a3"> a. Declaration statements

<input type = "radio" name = "Q3" value = "b3"> b. Keywords

c. Datatypes

<p> Q4: Which of the following type of variable is
volatile: </p>

a. Volatile variable

b. Dynamic variable

c. Mutable variable

<p> Q5: Which of the following is the correct way for
calling the Javascript code: </p>

a. Preprocessor

b. Function

c. Triggering Event

<button type="button" onclick="displayRadioValue()>
 submit </button>

<h2> Results </h2>

<div id="result"> </div>

```
<script>

function displayRadioValue() {
    document.getElementById("result").innerHTML = "";
    var ele = document.getElementById('input');
    for (i=0; i<ele.length; i++) {
        if (ele[i].type == "radio") {
            if (ele[i].checked) {
                if (ele[i].value == 'a' && ele[i].name == 'Q1') {
                    document.getElementById("result").innerHTML
                    += ele[i].name + ". is correct <br> ";
                } else if (ele[i].value != 'a' && ele[i].name == 'Q1') {
                    document.getElementById("result").innerHTML
                    += ele[i].name + ". is wrong "
                }
                if (ele[i].value == 'b2' && ele[i].name == 'Q2') {
                    document.getElementById("result").innerHTML
                    += ele[i].name + ", is correct <br> "
                } else if (ele[i].value != 'b2' && ele[i].name == 'Q2') {
                    document.getElementById("result").innerHTML
                    += ele[i].name + ", is wrong "
                }
            }
        }
    }
}
```

```
if (ele[i].value == 'a3' && ele[i].name == 'Q3') {
    document.getElementById("result").innerHTML
    += ele[i].name + ", is correct "
}

else if (ele[i].value != 'a3' && ele[i].name == 'Q3') {
    document.getElementById("result").innerHTML
    += ele[i].name + ", is wrong ";
}

if (ele[i].value == 'c4' && ele[i].name == 'Q4') {
    document.getElementById("result").innerHTML
    += ele[i].name + ". is correct "
}

else if (ele[i].value != 'c4' && ele[i].name == 'Q4') {
    document.getElementById("result").innerHTML
    += ele[i].name + ", is wrong ";
}

if (ele[i].value == 'b5' && ele[i].name == 'Q5') {
    document.getElementById("result").innerHTML
    += ele[i].name + ". is correct "
}

else if (ele[i].value != 'b5' && ele[i].name == 'Q5') {
    document.getElementById("result").innerHTML
    += ele[i].name + " is wrong ";
}
```

</script>

</body>

</html>

Result:

The program has been executed and the output was verified.

Output

Online Exam MCQ . Check answers and submit

Q1 : what type of language Javascript is :

- a. Object-Based //checked
- b. Object-Oriented
- c. High level

Q₂ : Which one of the following is also known as conditional expression:

- a. Switch
- b. Immediate if //checked
- c. If-then-else

Q3 : The function and var are known as :

- a. Declaration statements
- b. Keywords
- c. Datatypes //checked

Q4 : Which of the following type of variable is volatile

O a. Volatile variable

O b. Dynamic variable

O c. Mutable variable

// checked

Q5 : Which of the following is the correct way for calling the Javascript code :

O a. Preprocessor

// checked

O b. Function / Method

O c. Triggering Event

Submit

Results :

Q1 is correct

Q2 is correct

Q3 is wrong

Q4 is correct

Q5 is wrong

Program no: 15 , cos .1

Aim: Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format.

Program:

```
<html>
<body>
<h1> Contact Details </h1>

<?php
$db = mysqli_connect ("localhost", "root", "", "database");
$sql = "select id, name, email, number from contact";
$result = mysqli_query ($db, $sql);
?>
<table><tr>
<td>Id </td><td>name </td><td>Email </td><td>Contact
</td>
</tr>
<?php
while ($row = mysqli_fetch_assoc ($result)) {
?>
<tr>
<td><?php echo $row ["id"]; ?></td>
<td><?php echo $row ["name"]; ?></td>
```

```
<td> <?php echo $row ["email"]; ?> </td>
<td> <?php echo $row ["contact"]; ?> </td>
</tr>
<?php } ??>
</table> </body> </html>
```

Result :

The program has been executed and the output was verified.

Output

Contact Details

ID	Name	Email	Contact
1	Anovind	ana@gmail.com	9897654321
2	Anond	anond@gmail.com	8606837884
3	Hello	hello@gmail.com	7654321019

Ariavind . v.v

MCA a . SI

Roll no: 24

Web Programming

Lab Record

Aaravind . V.V

MCA - a - SI

Roll no: 24

Web Programming

Lab Record

24/02/
2021

Program no: 16

Aim:

Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format.

Program:

<style>

```
table, th, td {  
    font-size: 20px;  
    padding: 10px;  
    border: 1px solid black;  
    border-collapse: collapse; }
```

</style>

<body>

<h1> 1. Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format. </h1>

<?php

```
$db = mysqli_connect("localhost", "root", "", "php");  
$sql = "select * from new";  
$result = mysqli_query($db, $sql);
```

```

if (mysql_num_rows ($result) > 0 ) {
    >
<div style = "position: relative; left: 50px;">
    <table> <tr>
        <th> Name </th> <th> Course </th> <th> Batch </th> <th> Roll No </th>
    </tr>
    <?php
        while ($row = mysqli_fetch_assoc ($result)) {
            >
            <tr>
                <td> <?php echo $row["Name"], ?></td>
                <td> <?php echo $row ["Course"], ?></td>
                <td> <?php echo $row ["Batch"], ?></td>
                <td> <?php echo $row ["Roll no"], ?></td>
            </tr>
        <?php } } ?>
    </table> </div> </body>

```

Result

The program has been executed and output was verified.

Form with Validation and Database Insertion

Name

Email

Phone Number

mm dd yyyy



Address

Male

Submit

24/02/
2021

Program no. 17

Aim: Outline a registration form using PHP and its necessary validations

Program:

form.php

```
<?php  
$conn = mysqli_connect ("localhost", "root", "", "php")  
if (isset ($_POST ['submit']))  
{  
  
    $name = $_POST ['name'];  
    $email = $_POST ['email'];  
    $date = $_POST ['dob'];  
    $dob = date ('Y-m-d', strtotime ($date));  
    $phno = $_POST ['phno'];  
    $gender = $_POST ['gender'];  
    $address = $_POST ['address'];  
    $sql = "INSERT INTO form (Name, Email, Phno, Dob, Gender, Address)  
VALUES ('$name', '$email', '$phno', '$dob', '$gender', '$address')";  
    $query = mysqli_query ($conn, $sql);  
}
```

if (\$query) {
?> <p style = "color: red;"> ?> <?php echo "Elements are inserted
into table form" ; ?> </p> <?php ?>

<html>
<head>
<style>
input {
border: 2px solid black;
width: 100%;
padding: 12px 20px;
margin: 8px 0;
box-sizing: border-box; }
}

button {
background-color: green;
border: none;
color: white;
padding: 16px 32px;
text-decoration: none;
margin: 8px 2px;
cursor: pointer;
}

```
select {  
    border: 2px solid black,  
    width: 100%  
}  
  
padding: 12px 20px;  
margin: 8px 0;  
box-sizing: border-box; }  
  
</style>  
  
<script>  
function validate() {  
    var email = document.getElementById('email').value  
    var validRegex = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,63}$/;  
  
    if (email.match(validRegex)) {  
        var phoneno = /\^ \(([0-9]{3})\)[ \-]?([0-9]{3})\)?([0-9]{4})$/;  
  
        var ph = document.getElementById("ph").value  
        if (ph.match(phoneno)) {  
            var dt = document.getElementById("dt").value  
        }  
    }  
}
```

```
if ("1972/10/10" < dt)
{
    return true;
}

else { alert ("Age should be less than 50");
return false; }

else {
    alert ("Invalid Phone number");
    return false;
}

else {
    alert ("Invalid Email");
    return false;
}

}

</script>
</head>
<body>



# Form with Validation and Database Insertion



<form method = "post">

<input type = "text" name = "name" placeholder = "Name"><br>
<input type = "email" name = "email" placeholder = "Email" id = "email"><br>
<input type = "number" name = "phno" placeholder = "Phone" id = "ph"><br>
<input type = "date" name = "dob" placeholder = "Date of Birth" id = "dt"><br>
```

```
<text area name = "address" placeholder = "Address" style = "width:  
height: 150px;  
padding: 12px 20px;  
box-sizing: border-box;  
border: 2px solid black;  
border-radius: 4px;  
resize: none;"> </text area>  
  
<select name = "gender">  
<option value = "Male"> Male </option>  
<option value = "Female"> Female </option>  
<option value = "Other"> Other </option>  
</select>  
  
<input type = "submit" name = "submit" onclick = "return Validate();"  
</form>  
</body> </html>
```

2021
2021

Program no 18

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

Program :

<html>

<style>

```
input {  
    border : 2px solid black;  
    width : 100%;  
    padding : 12px 20px;  
    margin : 8px 0;  
    box-sizing : border-box;  
}
```

```
table {  
    font-size : 20px;  
    padding : 10px;  
    position : relative;  
    left : 500px;  
}
```

```
.button {  
    background-color : green;  
    border : none;
```

```
color:white;  
padding: 16px 32px;  
cursor: pointer; } </style>  
<body> <form method="post">  
<input type="number" name="consumer"><br>  
<input type="number" name="unit" placeholder="Units"><br>  
<input type="submit" name="submit" class="button">  
</form>  
<?php  
if (isset($_POST['submit'])) {  
    function bill($units) {  
        $unit-first = 3.50;  
        $unit-second = 4.00;  
        $unit-third = 5.20;  
        $unit-fourth = 6.50;  
  
        if ($units <= 50) {  
            $bill = $units * $unit-first; }  
  
        elseif ($units > 50 && $units <= 100) {  
            $temp = 50 * $unit-first;  
            $remainingUnits = $units - 50;  
            $bill = $temp + ($remainingUnits * unit-second);  
        }  
    }  
}
```

```
else if ($units > 100 && $units <= 200) {  
    $temp = (50 * 3.5) + (100 * $unit_second);  
    $remaining_units = $units - 150;  
    $bill = $temp + ($remaining_units * $unit_third); }  
else {
```

```
    $temp = (50 * 3.5) + (100 * $unit_second) + (100 *  
        $unit_third);  
    $remaining_units = $units - 250;  
    $bill = $temp + ($remaining_units * $unit_fourth); }
```

```
return number_format(float) $bill, 2, '.', ',' );
```

```
}
```

```
$consumer = $POST ['consumer'];  
$units = $POST ['unit'];  
$conn = mysqli_connect ("localhost", "root", "", "php");  
$res = bill($units);  
$sql = "select * from bill";  
$result = mysqli_query ($conn, $sql);  
while ($row = mysqli_fetch_assoc ($result)) {  
    if ($row ['consumerno'] == $consumer) { ?>
```

```
<div class = "hello" >
```

```

<table>
    <tr><th> Electricity Bill </th></tr>

    <tr>
        <td></td>
    <td></td>

    <td> Consumer no: </td><td> <?php echo $rows['consumer_no']?>
        </td></td>

    <td> Name: </td><td> <?php echo $rows['name']?>
        </td>

    <td> Connection Id: </td><td> <?php echo $rows['connid']?>
        </td></td> </td>

    <td> Units : </td><td> <?php echo $units?></td></td>

    <td> Amount to Pay : </td><td> <?php echo $res?>
        </td></td>

    <td> Bill Number : </td><td>
        <?php echo $rows['billno']?></td></td>

    <td> Bill Date : </td><td> <?php echo $rows['dat']?>
        </td></td>

    <td> Due Date: </td><td> <?php echo $rows['due_date']?>
        <?php ?></td></td>

</table>
</div> </body> </html>

```

Result Output

Electricity Bill using Tariff

valid consumer Number	101
Units	200
Submit	

Electricity Bill

Consumer no: 101

Name : Aravind VV

Connid : 107

Units : 200

Amount
to
Pay : 835.00

Bill Number : 12786

Bill Date : 17/2/2021

Due Date : 28/2/2021

201
02/
2021

Program no: 19

Aim : Build a PHP code to store name of Indian Cricket players in an array and display in a table.

Program:

```
<html> <style>
table {
    font-size: 20px;
    padding: 10px;
    position: relative;
    left: 500px; }
</style>
<table border = '1'>
<tr><th> Indian Cricket Players </th> </tr>
<?php
$var = array('Sachin', 'Dhoni', 'Sehwag', 'Kohli', 'Rohit',
'Dhawan', 'Bumrah', 'Pant', 'KL Rahul', 'Iyer');
foreach ($var as $values){ ?>
<td> <td>
<?php echo "$values"; ?>
</td> </td>
<?php } ?> </table> </html>
```

Result:

The program has been executed and the output verified.

Output:

Indian Cricket Players

Sachin

Dhoni

Sehwag

Kohli

Rohit

Dhawan

Bumrah

Pant

Rohul

Iyer

24/02/
2021

Program no: 20

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:

```
<html>
<center><p style= "position: relative; right: 100px;">
Normal Array </p> </center>
<table border = '1'>
<tr><th> Students Name </th> </tr>

<?php
$var= array ('Sachin', 'Aravind', 'Anand', 'Ebin', 'Vishnu',
             'Bobin', 'Benny'),
foreach ($var as $values){ ?>
<tr><td>
<?php print_r ($values);>
</td> </tr>
<?php } ?> </table>
```

```
<?php asort ($var); ?>
```

```
<center><p style = "position: relative; right: 100px;">
```

Asorted array </p> </center>

```
<table border = '1'>
```

```
<tr><th> Student Names </th></tr>
```

```
<?php
```

```
foreach ($var as $values) { ?>
```

```
<tr> <td>
```

```
<?php asort ($var); ?>
```

```
<center><p style = "position: relative; right: 100px;">
```

Asorted Array </p> </center>

```
<table border = '1'>
```

```
<tr><th> Student names </th></tr>
```

```
<?php
```

```
foreach ($var as $values) { ?> <td>
```

```
<tr> <td> <td><td>
```

```
<?php print_r ($values); ?> </td></td>
```

```
<?php ?>
```

```
</table> </html>
```

Output

Normal Array

Student Name
Sachin
Arovind
Anand
Ebin
Vishnu
Bobin
Benny

Sorted Array

Student Name
Anand
Arovind
Benny
Bobin
Ebin
Sachin
Vishnu

Unsorted Array

Student Name
Vishnu
Sachin
Ebin
Bobin
Benny
Arovind
Anand