

# **Web Technologies Lab Manual**

**I Sem**

**23MCA1L01**

**Prepared by:**

**Ms.Bhavani R**

**Assistant Professor**

**Department of MCA, NIE, Mysuru**

**1. Develop a script to create a resume using all the necessary basic HTML Tags.**

```
<!DOCTYPE html>
<html>
<head>
<title>Resume</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
<h1><center><u><b><i> Resume</i></b></u></center> </i></b></h1><align="right">

<h1><b><u> Objective</u></b></h1>
<p>Aim to be placed in challenging organization that gives me scope to update my
knowledge & skills in accordance
with the latest trends and be a part of team that dynamically works towards growth of
organization.</p>

<blockquote> Aim to be placed in challenging organization that gives me scope to update
my knowledge & skills in accordance with the latest trends and be a part of team that
dynamically works towards growth
of organization. </blockquote>
<hr>

<h1> <strong><u>About Me </u></strong> </h1>
<p>Aim to be placed in challenging organization<br/> that gives me scope to update my
knowledge & skills in accordance with the latest trends and be a part of team that
dynamically works towards growth
of organization. </p>
<hr>
```

```
<h1><u>Work Experience</u></h1>
<ol>
<li> Asst. Professor in A <sup>2</sup>B College
<li> Asst. Professor in Y <sub>2</sub>B College
<li> Asst. Professor in ZZZ College
</ol>
<hr>
```

```
<h1><u> Education </u></h1>
<dl>
<dt>B.E</dt>
<dd>Computer Science in NIE</dd>
<dt>M.Tech</dt>
<dd>Computer Science in NIE </dd>
</dl>
<hr>
```

```
<h1> <u>Professional Skills </u></h1>
<ul>
<li>HTML</li>
<li>CSS</li>
<li>Javascript</li>
<li>Angular JS</li><li>PHP</li>
</ul>
<hr>
```

```
<h1><u>Personal Information</u></h1>
<pre>
```

Name : XXX

DOB : 1-1-2023

Gender : Female

</pre>

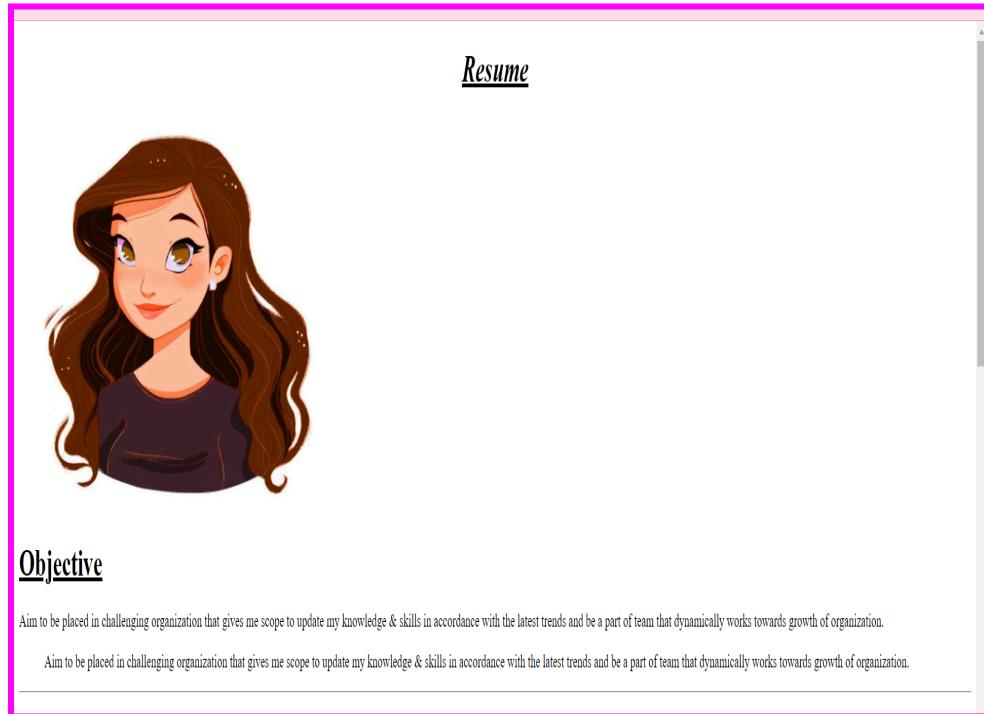
<hr>

<h1><u>Declaration</u></h1>

<p> I hereby declare that the details mentioned above are true to the best of knowledge.  
</p>

</body>

</html>



**Fig. No. 1**

### About Me

Aim to be placed in challenging organization that gives me scope to update my knowledge & skills in accordance with the latest trends and be a part of team that dynamically works towards growth of organization.

### Work Experience

1. Asst. Professor in A<sup>2</sup>B College
2. Asst. Professor in Y<sup>2</sup>B College
3. Asst. Professor in ZZZ College

### Education

B.E  
Computer Science in NIE  
M.Tech  
Computer Science in NIE

### Professional Skills

- HTML
- CSS
- Javascript
- Angular JS
- PHP

**Fig. No. 2**

### Education

B.E  
Computer Science in NIE  
M.Tech  
Computer Science in NIE

### Professional Skills

- HTML
- CSS
- Javascript
- Angular JS
- PHP

### Personal Information

Name : XXX  
DOB : 1-1-2023  
Gender : Female

### Declaration

I hereby declare that the details mentioned above are true to the best of knowledge.

**Fig. No. 3**

## **2. Design a Registration page using HTML tags**

### **Registration.html**

```
<!DOCTYPE html>
<html lang = "en">
<head>
<title> Registration Forms </title>
<style>

body {
    background-image: url('background.jpg');
}

h1{ font-size:45pt;
color:red; }

.bordered {
    width: 500px;
    height: 520px;
    padding: 20px;
    border: 4px solid black;
    border-radius: 8px;
}
</style>
</head>
<body>

<h1><center><u><b> Registration Form </u></b></h1>

<div class="bordered">
<form action="Welcome.html"; >

    <label for="Uname"> Name:</label><br>
    <input type="textbox" id="Uname" name="Username"><br/>

    <label for="Email"> Email:</label><br>
    <input type="textbox" id="Eml" name="EmailID"><br/>

    <label for="Pass"> Password:</label><br>
    <input type="password" id="Pass" name="Password"> <br/>
```

```
<label for="Pass">Re enter your Password:</label><br>
<input type="password" id="Pass1" name="Password"> <br/>

<label for="PhoneNo"> Phone No:</label><br>
    <input type="tel" id="PhoneNo" name="PhoneNo" maxlength="10"
pattern="[1-9]{1}[0-9]{9}"><br/>

<p>Gender:</p>
<input type="radio" id="age4" name="age" value="Male">
<label for="age4">Male</label><br>
<input type="radio" id="age5" name="age" value="Female">
<label for="age5">Female</label><br>
<input type="radio" id="age6" name="age" value="Others">
<label for="age6">Others</label><br><br>

<label for="Country">Choose a country:</label>
<select name="country" id="country">
    <option value="India">India</option>
    <option value="USA">USA</option>
    <option value="Australia">Australia</option>
    <option value="South Africa">South Africa</option>
</select>
<br> <br>

<label for="About"> About Me:</label><br>
<textarea name = "About" rows = "3" cols = "40">

</textarea>

<br/>

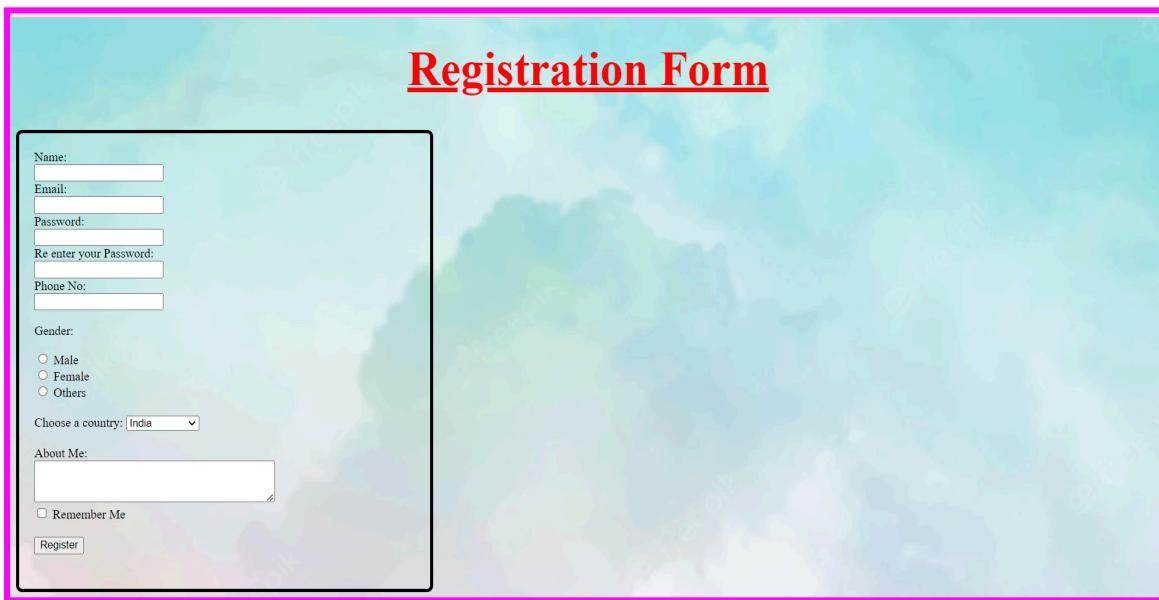
<input type="checkbox" id="chkbox" name="RemMe">
<label for="chkbox"> Remember Me</label><br/>

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

### Welcome.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Welcome Page</title>
    <style>
body {
    background-image: url('background1.jpg');
}

h1 { font-size:50pt;
color:yellow;
text-align:center;}
</style>
</head>
<body>
<h1>Congrats You have successfully registered...!</h1>
</body>
</html>
```



The image shows a registration form titled "Registration Form" in red text at the top center. The form is contained within a black-bordered box. It includes fields for Name, Email, Password, Re-enter Password, and Phone Number. There is also a Gender section with radio buttons for Male, Female, and Others, and a dropdown menu for choosing a country with "India" selected. An "About Me" text area is present, along with a "Remember Me" checkbox and a "Register" button.

**Fig. No. 4**



**Fig. No. 5**

- 3. Develop a HTML script to demonstrate Inline CSS, Document CSS and External CSS**

**selectors.html**

```
<html>

<title>CSS (inline)</title>

<head>

<link rel="stylesheet" type="text/css" href="style.css">

<style>

h1{

background-color: cadetblue;

font-family: 'Lucida Sans', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva, Verdana, sans-serif;

font-style: italic;

}


```

```
p{  
    background-color: coral;  
    font-family: Arial, "Helvetica Neue", Helvetica, sans-serif;  
    font-style: italic;  
}  
</style>  
</head>  
<body>  
    <center><h1 style="background-color: burlywood;"><u>ABOUT CARS(inline  
css)</u></h1></center>  
    <p style="color: cornflowerblue;font-family: Georgia, 'Times New Roman', Times,  
serif;font-style: italic;background-color: aquamarine;">A car or automobile is a motor vehicle  
with wheels. Most definitions of cars say that they run primarily on roads, seat one to eight  
people, have four wheels, and mainly transport people (rather than goods).[1][2]
```

Cars were invented in 1886, when German inventor Carl Benz patented his Benz Patent-Motorwagen.[3][4][5] Cars became widely available during the 20th century. One of the first cars affordable by the masses was the 1908 Model T, an American car manufactured by the Ford Motor Company. Cars were rapidly adopted in the US, where they replaced horse-drawn carriages.[6] In Europe and other parts of the world, demand for automobiles did not increase until after World War II.[7] The car is considered an essential part of the developed economy.</p>

```
<br><br>  
<h1><u><center>ABOUT LUXURY CARS(internal css)</center></u></h1>  
<p>A luxury car is a car that provides increased levels of comfort, equipment, amenities,  
quality, performance, and associated status compared to moderately priced cars.
```

The term is subjective and reflects both the qualities of a car and the brand image of its manufacturer.[1] Luxury brands rank above premium brands, though there is no fixed demarcation between the two.[2]

Traditionally, most luxury cars were large vehicles, though smaller sports-oriented models were always produced. "Compact" luxury vehicles such as hatchbacks, and off-road capable sport utility vehicles, are relatively modern trends.[1]

</p>

<br><br><h2><center><u>ABOUT SPORTS CARS(external css)</u></center></h2>

<P1>

Definitions of sports cars often relate to how the car design is optimised for dynamic-performance,[2][3] without any specific minimum requirements; both a Triumph Spitfire and Ferrari 488 Pista can be considered sports cars, despite vastly different levels of performance. Broader definitions of sports cars include cars "in which performance takes precedence over carrying capacity",[4] or that emphasise the "thrill of driving"[5] or are marketed "using the excitement of speed and the glamour of the (race)track"[6] However, other people have more specific definitions, such as "must be a two-seater or a 2+2 seater"[7] or a car with two seats only

</P1>

</body>

</html>

**Style.css**

```
h2 {  
    background-color: bisque;  
    font-size: large;  
    font-family: Georgia, 'Times New Roman', Times, serif;  
    font-style: italic;  
}  
  
p1 {  
    background-color: blueviolet;  
    font-size: large;  
    font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;  
}
```

### ABOUT CARS(inline css)

A car or automobile is a motor vehicle with wheels. Most definitions of cars say that they run primarily on roads, seat one to eight people, have four wheels, and mainly transport people (rather than goods).[1][2] Cars were invented in 1886, when German inventor Carl Benz patented his Benz Patent-Motorwagen.[3][4][5] Cars became widely available during the 20th century. One of the first cars affordable by the masses was the 1908 Model T, an American car manufactured by the Ford Motor Company. Cars were rapidly adopted in the US, where they replaced horse-drawn carriages.[6] In Europe and other parts of the world, demand for automobiles did not increase until after World War II.[7] The car is considered an essential part of the developed economy.

### ABOUT LUXURY CARS(internal css)

A luxury car is a car that provides increased levels of comfort, equipment, amenities, quality, performance, and associated status compared to moderately priced cars. The term is subjective and reflects both the qualities of a car and the brand image of its manufacturer.[1] Luxury brands rank above premium brands, though there is no fixed demarcation between the two.[2] Traditionally, most luxury cars were large vehicles, though smaller sports-oriented models were always produced. "Compact" luxury vehicles such as hatchbacks, and off-road capable sport utility vehicles, are relatively modern trends.[1]

### ABOUT SPORTS CARS(external css)

Definitions of sports cars often relate to how the car design is optimised for dynamic-performance.[2][3] without any specific minimum requirements; both a Triumph Spitfire and Ferrari 488 Pista can be considered sports cars, despite vastly different levels of performance. Broader definitions of sports cars include cars "in which performance takes precedence over carrying capacity".[4] or that emphasise the "thrill of driving"[5] or are marketed "using the excitement of speed and the glamour of the (race)track".[6] However, other people have more specific definitions, such as "must be a two-seater or a 2+2 seater"[7] or a car with two seats only

**Fig. No. 8**

#### 4. Develop a HTML Script to demonstrate Selector Forms

#### Selector forms

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
h4,h5 {font-size:20pt;}
```

```
#para1 {
```

```
text-align: left;
```

```
font-size:24pt;  
  
color: red;  
  
}  
  
.class {  
  
text-align: center;  
  
font-size:30pt;  
  
color: blue;  
  
}  
  
p.generic  
  
{  
  
font-size:24pt;  
  
color: red;  
  
}  
  
</style>  
  
<style type = "text/css">  
  
input:hover {color: red;}  
  
input:focus {color: green;}  
  
</style>
```

</head>

<body>

<h1> Different Selector forms </h1>

<h4> Simple Selector using h4 tag </h4>

<h5> Simple selector using h5 tag </h5>

<p id="para1">Id Selector</p>

<h1 class="generic">Generic Selector heading</h1>

<p class="generic">Generic selector paragraph</p>

<p class="class">Class selector </p>

<form action = "">

<h1> Pseudo Class <h1>

<p>

Your name:

<input type = "text" />

</p>

</form>

</body>

</html>

## **Universal Selector**

```
<!DOCTYPE html>

<html>
  <head>
    <style>
      * {
        text-align: center;
        color: blue;
      }
    </style>
  </head>
  <body>
    <h1>Hello world!</h1>
    <p>Hello Karnataka.</p>
    <p id="para1">Hello Mysuru</p>
    <p>Hello NIE</p>
  </body>
</html>
```

## Different Selector forms

Simple Selector using h4 tag

Simple selector using h5 tag

Id Selector

Generic Selector heading

Generic selector paragraph

Class selector

Fig. No. 9

# Hello world!

Hello Karnataka.

Hello Mysuru

Hello NIE

Fig. No. 10

## JavaScript

- 1) Input: a line of text using prompt.**

**Output: The words of the input text in alphabetical order.**

```
<html>
<head><title>text</title>
</head>
<body>
<script type="text/javascript">
var n=prompt("Enter the text");
document.write("Given text is ",n,"<br>");
var text=n.split(" ");
var result=text.sort();
document.write("order list of text <br> ", result , "<br>");
</script>
</body>
</html>
```

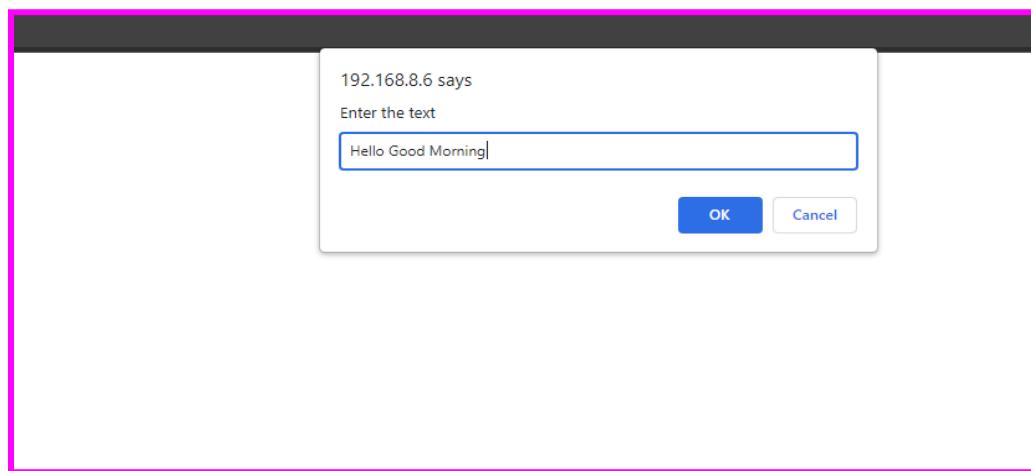


Fig. No. 17

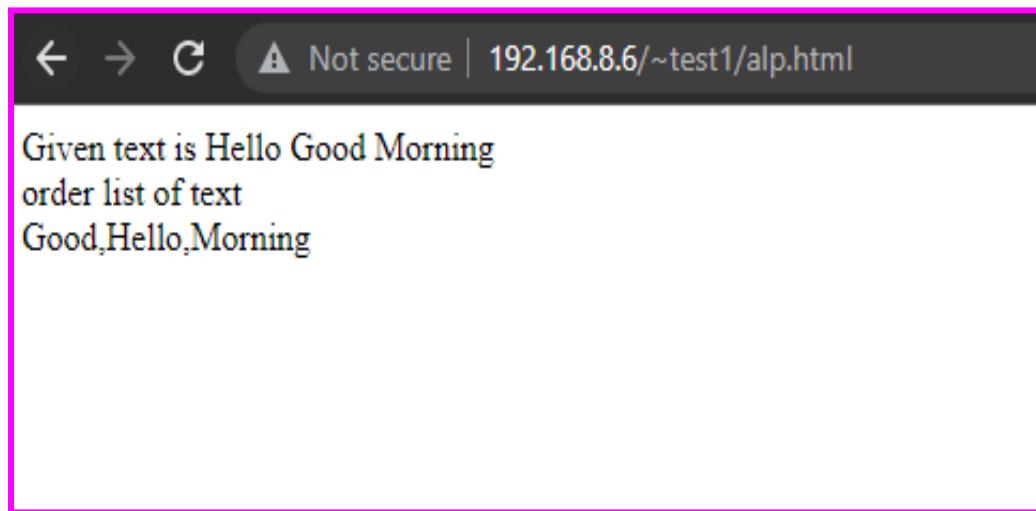


Fig. No. 18

2) **Input :** A string

**Output:** Left-most vowel and the position of the left most vowel in the string

```
<html>
  <head>
    <title>
      Left Most vowel
    </title>
  </head>
  <body>
    <script type="text/javascript">
      var input = prompt("enter the string :");
      var len = input.length;
```

```
document.write("length of string enter:" + len +"  
");

input = input.toUpperCase();

var count = 0;

for(i=0;i<len;i++)

{

    if(input[i]=='A' || input[i]=='E' || input[i]=='I' || input[i]=='O' || input[i]=='U')

    {

        var vowel = input[i];

        var index = i + 1;

        count++;

        document.write("left most vowel is : " +vowel +"<br>");

        document.write("index of vowel:" +index);

        break;

    }

}

if (count == 0)

{

    document.write("\n No Vowels");

}

</script>

</body>
```

</html>

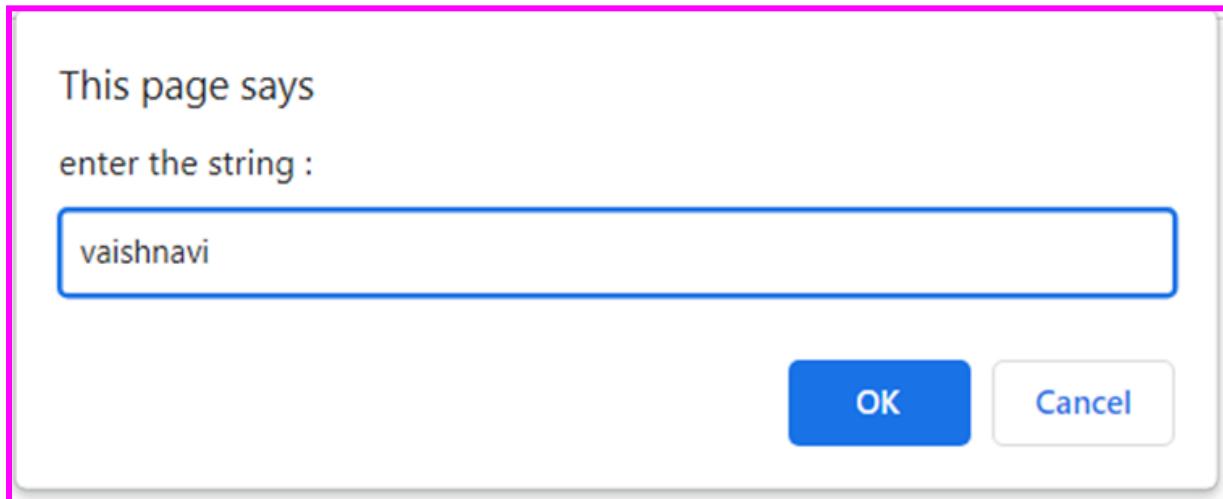


Fig. No. 19

**length of string enter:9  
left most vowel is : A  
index of vowel:2**

Fig. No. 20

**3) Design and develop a script to display date and time**

```
<!DOCTYPE html>

<html>
<head>
<title>date and time</title>
</head>
<body>
<center>
<h1 style="font-family: 'Times New Roman', Times, serif;color: brown;">Current Date and Time</h1>

<script type="text/javascript">
var date=new Date();
var day=date.getDate();
var month=date.getMonth()+1;
var year=date.getFullYear();
document.write("<br>Date using <b>getDate(), getMonth()+1,getFullYear() is:<br>"+day+"/"+month+"/"+year+" </b>");
document.write("<br>");
document.write("<br>");
var day_of_month=date.getDay();
document.write("Day of the month Using <b>getDay()</b> is :" +day_of_month);
document.write("<br>");
document.write("<br>");
```

```
var dateInfo=date.toLocaleString();

document.write("Date Information using <b>toLocaleString()</b>:"+dateInfo);

document.write("<br>");

document.write("<br>");

var timeInfo=date.getTime();

document.write("Time Information using <b>getTime()</b> is :" +timeInfo);

document.write("<br>");

document.write("<br>");

var hoursInfo=date.getHours();

document.write("Time Information using <b>getHours()</b> is :" +hoursInfo);

document.write("<br>");

document.write("<br>");

var minutesInfo=date.getMinutes();

document.write("Time Information using <b>getMinutes()</b> is :" +minutesInfo);

document.write("<br>");

document.write("<br>");

var secondsInfo=date.getSeconds();

document.write("Time Information using <b>getSeconds()</b> is :" +secondsInfo);

document.write("<br>");

document.write("<br>");

var secondsInfo=date.getMilliseconds();

document.write("Time Information using <b>getMilliseconds()</b> is :" +secondsInfo);
```

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

## Current Date and Time

Date using **getDate()**, **getMonth() + 1**, **getFullYear()** is: 23/3/2023

Day of the month Using **getDay()** is :4

Date Information using **toLocaleString()**: 3/23/2023, 11:56:06 AM

Time Information using **getTime()** is :1679552766633

Time Information using **getHours()** is :11

Time Information using **getMinutes()** is :56

Time Information using **getSeconds()** is :6

Time Information using **getMilliseconds()** is :633

## **JQuery Scripts**

### **How to run JQuery Scripts:**

1. Download the latest version of JQuery min file from the Official website.
2. Add the source file inside the Head tag.
3. Write the program, save it as .html file extension and run it.

**OR**

### **CDN Method**

1. Add the Google link <https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js> inside the head tag.
2. Write the program, save it as .html file extension and run it.

### **1. Write a script to demonstrate Hover event**

```
<html>

<head>

<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("#p1").hover(function(){

alert("You entered p1!"); },
```

```
function(){

    alert("Bye! You now leave p1!");

});

};

</script>

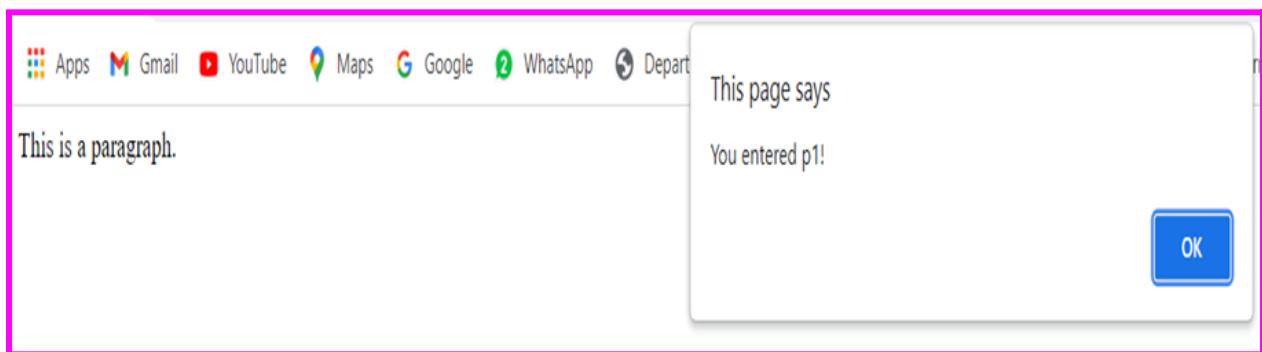
</head>

<body>

<p id="p1">This is a paragraph.</p>

</body>

</html>
```



**Fig. No. 26**



**Fig. No. 27**

**2. Write a program to demonstrate Click event**

```
<html>  
  
<head>  
  
<script  
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>  
  
<script>  
  
$(document).ready(function()  
  
{  
  
    $("p").click(function()  
  
    {  
  
        $(this).hide();  
  
    });  
});
```

```
</script>

</head>

<body>

<p>If you click on me, I will disappear.</p>

<p>Click me away!</p>

<p>Click me too!</p>

</body></html>
```

If you click on me, I will disappear.  
Click me away!  
Click me too!

**Fig. No. 28**

If you click on me, I will disappear.  
Click me too!

**Fig. No. 29**

If you click on me, I will disappear.

**Fig. No. 30**

### **3. JQuery script using HTML**

```
<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>

<script>

$(document).ready(

function(){

    $("button").click(function(){

        $("p").html("Hello <b>Learnjquery.com</b>");

    });

});

</script>

</head>

<body>

<button>Click here to change the content of all p elements</button>

<p>This is a paragraph.</p>

<p>This is another paragraph.</p>

</body>
```

</html>

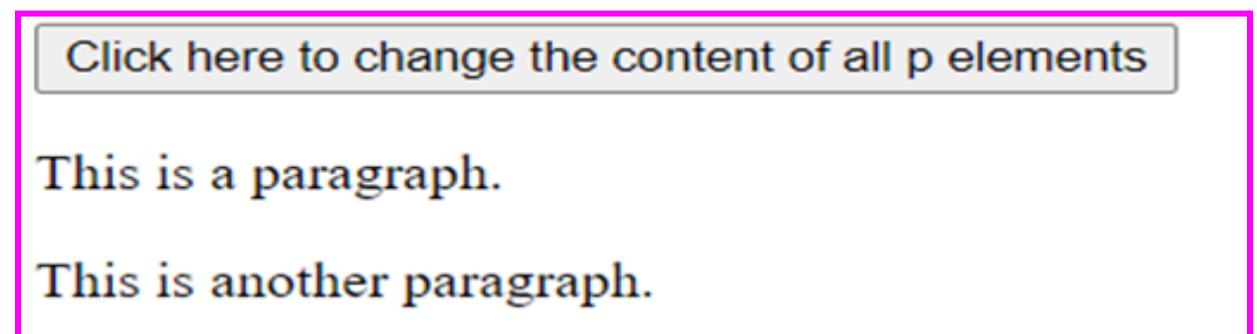


Fig. No. 31



Fig. No. 32

#### 4. JQuery script using CSS

```
<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script>

$(document).ready(function() {
```

```
$("button").click(function(){  
  
    $("p").css("background-color", "yellow");  
  
});  
  
});  
  
</script>  
  
</head>  
  
<body>  
  
<h2>This is a heading</h2>  
  
<p style="background-color:#ff0000">Hello NIE.</p>  
  
<p style="background-color:#00ff00">Hello MCA</p>  
  
<p style="background-color:#0000ff">Hello Students.</p>  
  
<p>This is a paragraph.</p>  
  
<button>Change background color of all Paragraphs</button>  
  
</body>  
  
</html>
```

## This is a heading

Hello NIE.

Hello MCA

Hello Students.

This is a paragraph.

**Fig. No. 33**

## Angular JS Scripts

### How to run Angular JS Scripts:

1. Write the code in notepad/notepad++/Visual Studio Code
2. Include source file in the script

**src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js -> It is Accessed from internet**

**Or**

3. Save the min file as min.js and embed it into the source file.
4. Save the file as filename.html
5. Open the file in browser

#### **1. Write a program to print the dynamic user input.**

```
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<body>
<div ng-app="">
<p>Input something in the input box:</p>
<p>Name : <input type="text" ng-model="name" placeholder="Enter name here"></p>
<h1>Hello {{name}}</h1>
</div>
</body>
</html>
```

**Input something in the input box:**

**Name :**

**Hello**

**Fig. No. 34**

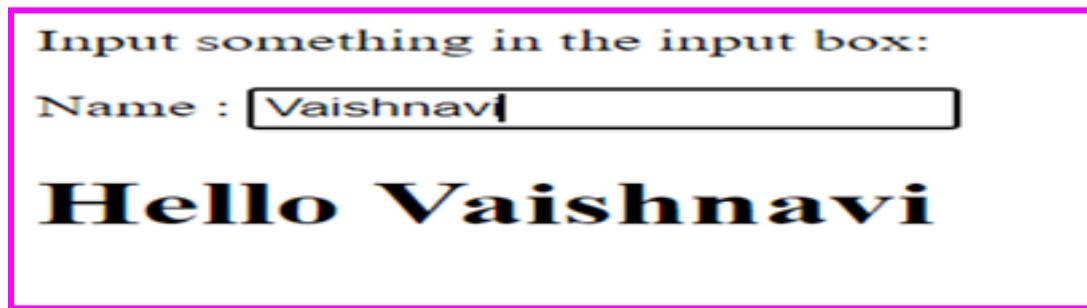


Fig. No. 35

2. Write a program to demonstrate the usage of filters

```
<!DOCTYPE html>

<html>
  <head>
    <title>AngularJS for beginners</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
  </head>
  <body>
    <h3>Using Upper Case Filter</h3>
    <div ng-app="" ng-init="Username= 'Hello Mysuru' ">
      <p>User Name: <input type="text" ng-model = "Username"></p>
      <p style="color:red" ng-bind="Username | uppercase"></p>
    </div>
  </body>
</html>
```

## Using Upper Case Filter

User Name:

HELLO MYSURU

**Fig. No. 36**

### 3. Write a program to demonstrate click event

```
<html>

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>

<body>

<div ng-app="myApp" ng-controller="myCtrl">

<h1 ng-click="count = count + 1">Mouse Over Me!</h1>

<h2>{{ count }}</h2>

</div>

<script>

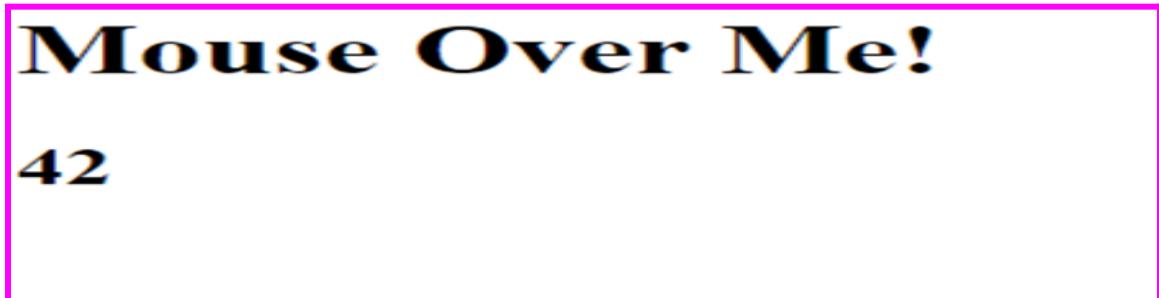
var app = angular.module('myApp', []);

app.controller('myCtrl', function($scope) {
```

```
$scope.count = 0;  
});  
</script>  
  
</body></html>
```



**Fig. No. 37**



**Fig. No. 38**

**4. Write a program to demonstrate timeout service**

```
<html>  
  
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>  
  
<body>  
  
<div ng-app="myApp" ng-controller="myCtrl">
```

```
<p>This header will change after two seconds:</p>

<h1>{{myHeader}}</h1>

</div>

<p>The $timeout service runs a function after a specified number of milliseconds.</p>

<script>

var app = angular.module('myApp', []);

app.controller('myCtrl', function($scope, $timeout) {

    $scope.myHeader = "Hello World!";

    $timeout(function () {

        $scope.myHeader = "How are you today?";

    }, 2000);

});

</script>

</body>

</html>
```

This header will change after two seconds:

## Hello World!

The \$timeout service runs a function after a specified number of milliseconds.

**Fig. No. 39**

This header will change after two seconds:

## How are you today?

The \$timeout service runs a function after a specified number of milliseconds.

**Fig. No. 40**