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</center> </u></i></b></h1><align="right">
<img src="girl-cartoon-characters-1.jpg" alt="Trulli" width="500" height="333">
<h1><b><u> Objective</b> </u></h1>
<p>Aim to be placed in challenging organization that gives me scope to update my knowledge &amp;amp; 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 &amp;amp; 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 &amp;amp; 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>
```

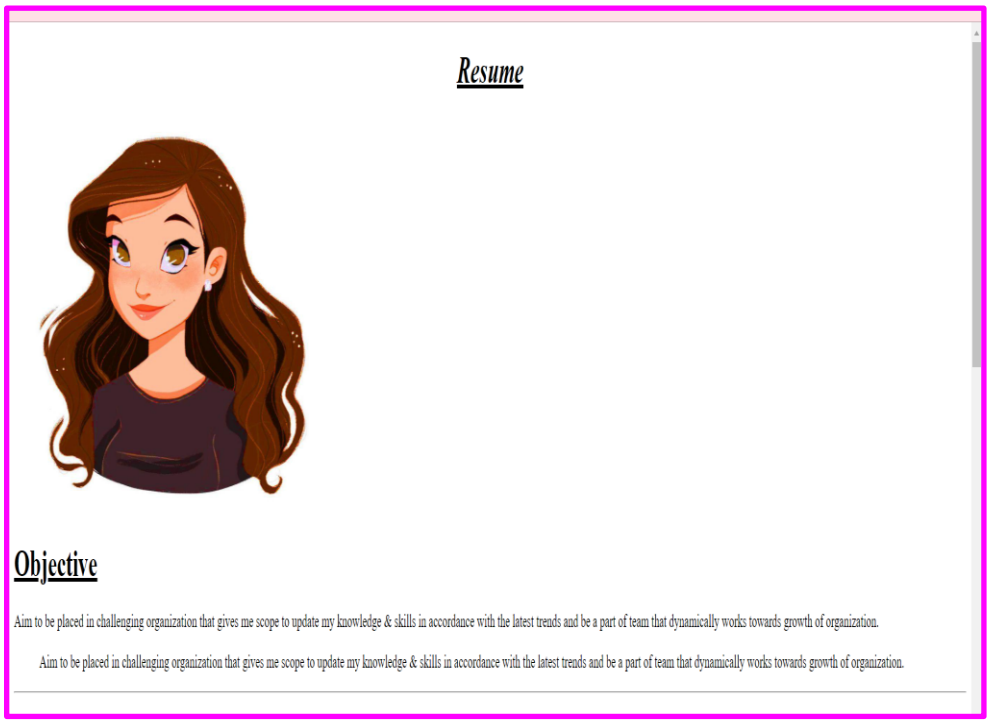
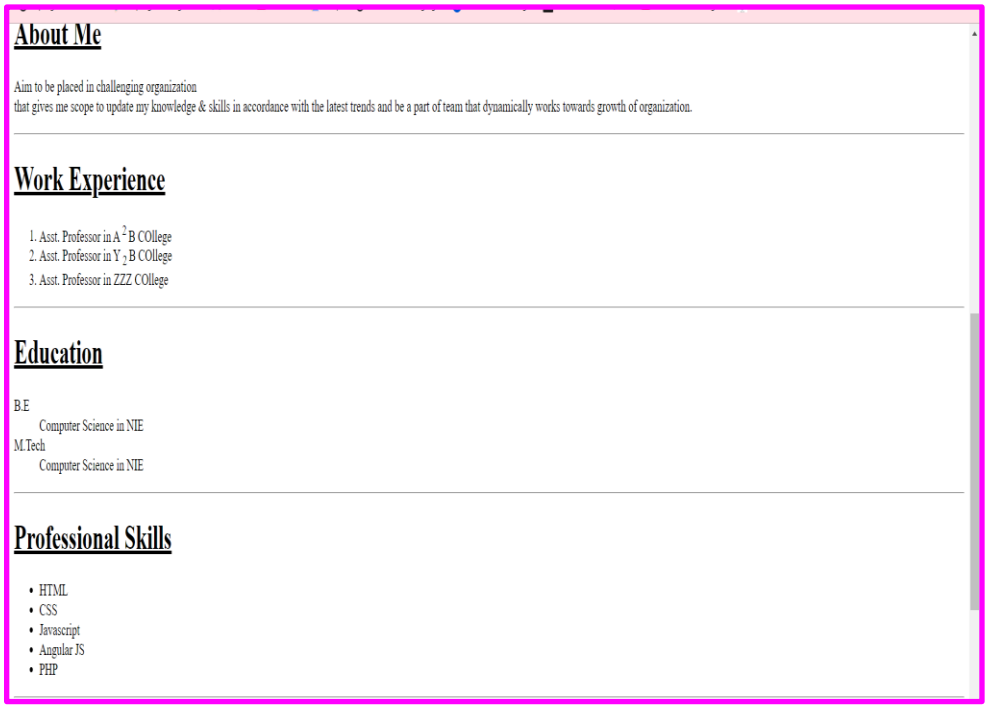


Fig. No. 1



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^2 B COllege
2. Asst. Professor in Y_2 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. Scripts on HTML and CSS using the forms.

2.1 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>
```

Fig. No. 4

Fig. No. 5

2.2 Script to design Payment form

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>payment form</title>

</head>
<body>
    <form action="">
    <h1>Contact Information</h1>
    <p>Name: *<input type="text" name="name" required></p>
    <fieldset>
        <legend>Gender * </legend>
    <p>male<input type="radio" name="gender" id="male">
        female <input type="radio" name="gender" id="Female" required>
    </p>
</fieldset>
<p>Address:<textarea name="address" id="address" cols="100" rows="8"></textarea></p>
<p>email: *<input type="email" id="email" required></p>
<p>phonenumber: *<input type="tel" id="phone" name="phone_number"
```

```
   onkeyup="this.value = this.value.replace(/[^0-9-]/g, ");" maxlength="10"
        required/></p>
<p>pincode: <input type="number" name="pincode"  id="pincode"></p>
<h2>Payment information</h2>
<p> Cardtype *
   <select name="cardtype" id="card_type" required>
      <option value="">--slect card type--</option>
      <option value="visa">visa</option>
      <option value="Rupay_card">Rupay_card</option>
      <option value="master Card">master card</option>
      <option value="credit card">credit card</option>
   </select>
</p>

   <p>cardnumber<input
   type="tel"
   name="card_number"
   id="cardnumber"
   onkeyup="this.value = this.value.replace(/[^0-9-]/g, ");"
   maxlength="16"/>
   </p>
   <p>Experdiation Date: *<input type="date" name="exp_date" id="exp_date"
required></p>
<p>cvv *
  <input type="password" name="cvv" id="cvv" maxlength="3" required></p>
  <p>
  <input type="submit" value="pay_now">
  <input type="reset" value="clear">
</p>
</form>
</body>
</html>
```

Output:

Contact Information

Name: *

Gender *

male female

Address:

email: *

phonenumber: *

pincode:

Payment information

Cardtype * --slect card type--

cardnumber

Experdiation Date: * dd-mm-yyyy

cvv *

pay_now clear

3. Develop a HTML script to demonstrate CSS.

3.1 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>
```

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.

<h1><u> ABOUT LUXURY CARS(internal css) </u></h1>

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]

<h2> <u>ABOUT SPORTS CARS(external css)</u> </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;
}
```

Fig. No. 8

3.2 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>
```

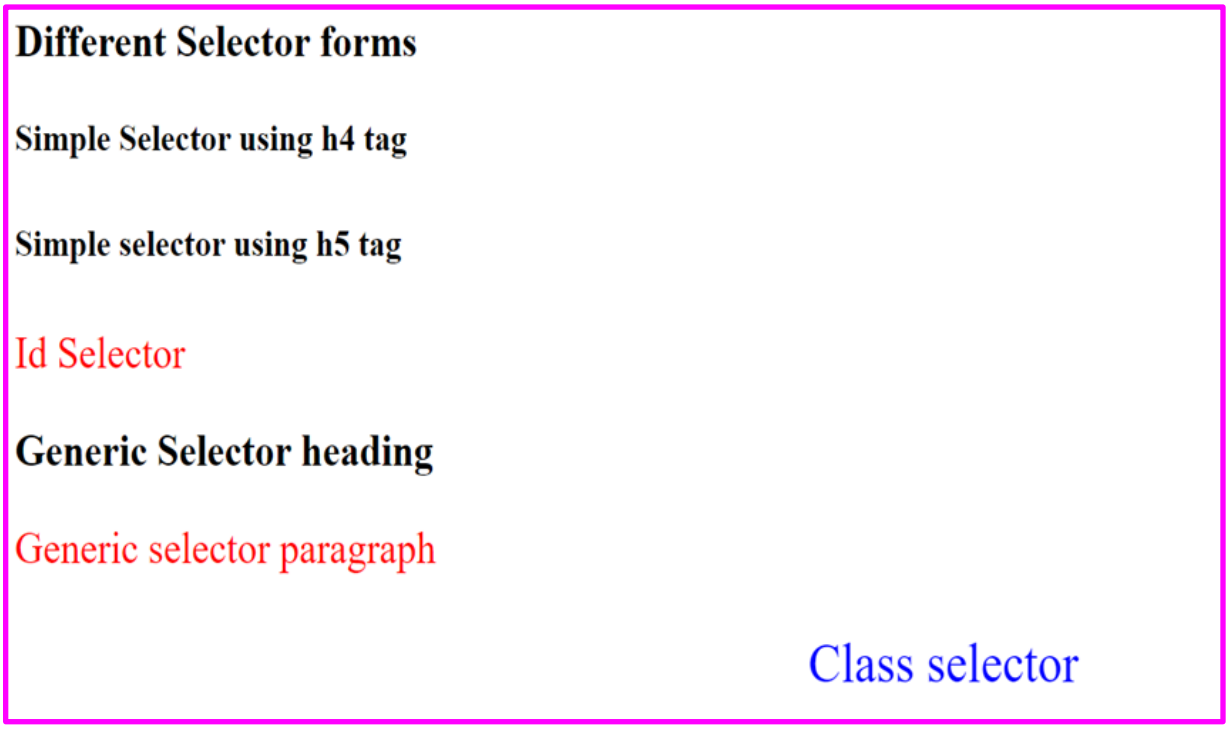


Fig. No. 9

Fig. No. 10

4. Design a webpage for MCA department using HTML and CSS.

Creating Page Content

Inside the <body> element of our website, we will use our "Layout Draft" and create.

- A header
- A navigation bar
- Main content
- Side content
- A footer

1. Header

A header is usually located at the top of the website (or right below a top navigation menu). It often contains a logo or the website name.

2. Navigation Bar

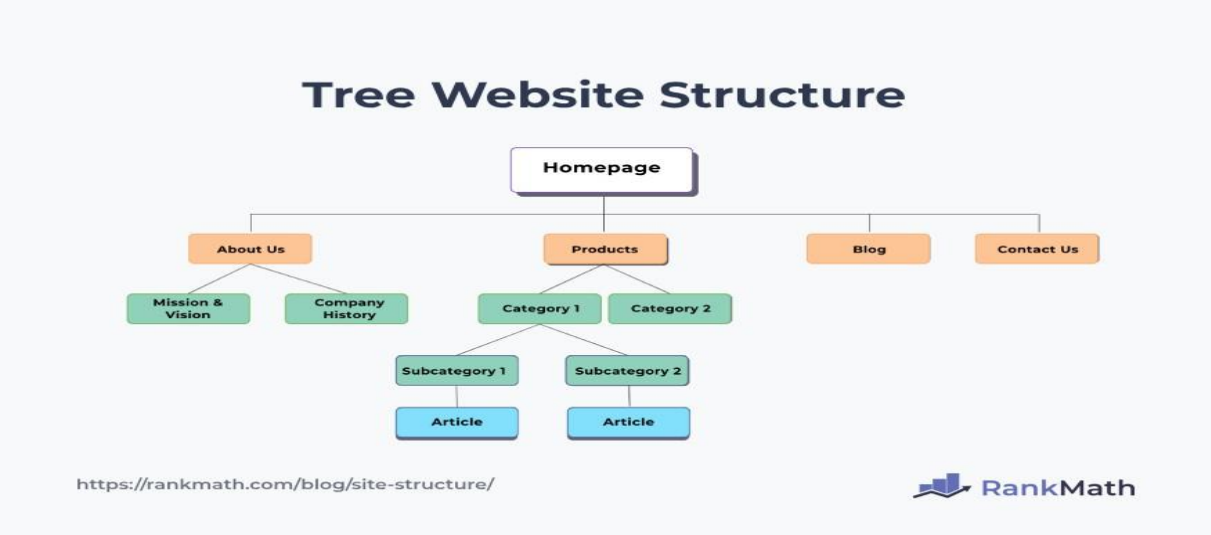
A navigation bar contains a list of links to help visitors navigating through your website.

3. Content

Create a 2-column layout, divided into a "side content" and a "main content".

4. Footer

At last, we will add a footer.



Webpage code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>NIE college</title>
<link rel="stylesheet" href="web.css">
</head>
<body>
<header>
<div class="logo"
<img src="C:\Users\Bhavani\Desktop\Bhavani WEB\logo.jpeg" width="10%"
height="10%">
<h1>National Instiute of Engineering MCA Department</h1>
</div>
</header>
<nav>
<a href="https://nie.ac.in/north-campus-home/">Home</a>
<a href="https://nie.ac.in/placements/">Placement</a>
<a href="#">College Reviews</a>
<a href="file:///C:/Users/Bhavani/Desktop/Bhavani%20WEB/registrationform.html">Enquiry
Now</a>
</nav>
<main>
<section>
   <h2>About Department</h2>
   <h1> <b> <center> <u> Department of MCA </u></center> </b> <br/> </h1>
```

```
<p>Established in 1997, this department offers Post-graduate course in Master of Computer Applications. With a policy of providing training and education related to industry trends and requirements. <br/>
</p>
<marquee width="110%" direction="left" height="100px">
   Time table for the exam has been released.
   </marquee>
   <h1> <b> Vision </b> <br/></h1>
   <p>“MCA will be an outstanding department contributing significantly to teaching, research and consultancy, <br/> through well-equipped laboratories and well-trained staff to meet global challenges in the field of Computer
   Engineering & Applications”</p>

   <h1><b> Mission </b></br></h1><p>
   1. To impart quality technical education and provide <br/>
   2. Skills in Computer Application through best of practices.<br/>
   3. To produce graduates who can contribute<br/>
   4. professionally to the society and widely as IT<br/>
   <br/>
   </p>
   <hr/>
<h2>Study Material</h2>
<a target="_blank" href="C:\Users\Bhavani\Desktop\Bhavani WEB\Web-Notes-by-Divya-RNSIT.pdf"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\web1.jpg" alt="" width="24%" height="20%"></a>
<a target="_blank" href="C:\Users\Bhavani\Desktop\Bhavani WEB\Web page\Fabio Nelli - Python Data Analytics_ With Pandas, NumPy, and Matplotlib-Apress (2018) (1).pdf"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\python img.jpg" alt="" width="24%" height="20%"></a>
```

```
<a target="_blank" href="C:\Users\Bhavani\Desktop\Bhavani WEB\Web page\Database System Concepts 6th edition.pdf"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\dbms img.jpeg" alt="" width="24%" height="20%"></a>
<a target="_blank" href="C:\Users\Bhavani\Desktop\Bhavani WEB\ml text book.pdf"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\ml img.jpg" alt="" width="24%" height="20%"></a>
<br/>
<hr/>

<h2>Faculty details</h2>
<div class="scroll-container">
<a href="https://nie.ac.in/blog/faculty/sanjay-kumar-c-k/"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\sanjaykumar.png" alt="" width="15%" height="15%" ></a>
<a href="https://nie.ac.in/blog/faculty/smt-asha-n/"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\asd-1.jpg" alt="" width="15%" height="15%"></a>
<a href="https://nie.ac.in/blog/faculty/k-r-sumana/"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\krsumana-mca.jpg" alt="" width="15%" height="15%" ></a>
<a href="https://nie.ac.in/blog/faculty/bhavani-r-2/"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\Bhavani-R.jpg" alt="" width="15%" height="15%"></a>
<a href="https://nie.ac.in/blog/faculty/chaithra-j-p/"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\Chaithra-J-P-mca.jpg" alt="" width="15%" height="15%" ></a>
<a href="https://nie.ac.in/blog/faculty/sandhya-n-2/"><img src="C:\Users\Bhavani\Desktop\Bhavani WEB\Sandhya-N.jpg" alt="" width="15%" height="15%" ></a>
```

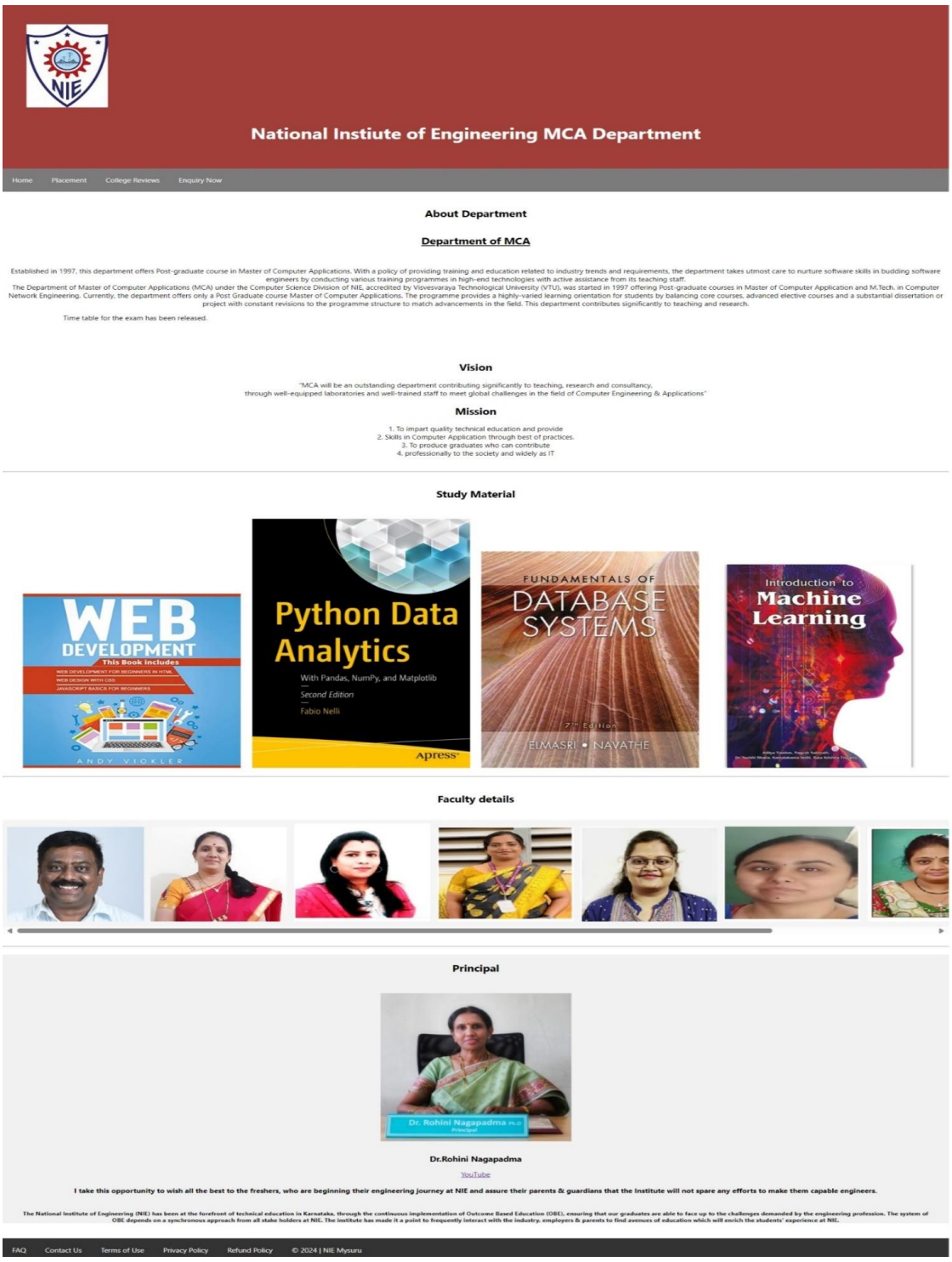
```
<a href="https://nie.ac.in/blog/faculty/g-sireesha/"><img
src="C:\Users\Bhavani\Desktop\Bhavani WEB\G-Sireesha.jpg" alt="" width="15%"
height="15%" ></a>
<a href="https://nie.ac.in/blog/faculty/ananth-g-s/"><img
src="C:\Users\Bhavani\Desktop\Bhavani WEB\Web page\ananthg.png" alt="" width="15%"
height="15%" ></a>
</div>
<br/>
<hr/>
</section>
<section>
<h2>Principal</h2>
<img src="C:\Users\Bhavani\Desktop\Bhavani WEB\rnp-principal.jpeg" alt="principal
image">
<h3>Dr.Rohini Nagapadma</h3>
<a href="https://www.youtube.com/watch?v=qbaYRGBLLuE" target="_blank"
rel="noopener noreferrer">YouTube</a>
<h4>I take this opportunity to wish all the best to the freshers, who are beginning their
engineering journey at NIE and assure their parents & guardians that the Institute will not
spare any efforts to make them capable engineers.</h4>
<h5>The National Institute of Engineering (NIE) has been at the forefront of technical
education in Karnataka, through the continuous implementation of Outcome Based Education
(OBE), ensuring that our graduates are able to face up to the challenges demanded by the
engineering profession. The system of OBE depends on a synchronous approach from all
stake holders at NIE. The institute has made it a point to frequently interact with the industry,
employers & parents to find avenues of education which will enrich the students' experience
at NIE</h5>
</section>
</main>
```

```
<footer>
        <a href="#">FAQ</a>
        <a href="#">Contact Us</a>
        <a href="#">Terms of Use</a>
        <a href="#">Privacy Policy</a>
        <a href="#">Refund Policy</a>
        <a href="#">&copy; 2024 | NIE Mysuru</a>
</footer>
</body>
</html>
```

web.css

```
* {
   box-sizing: border-box;
}

body {
   margin: 0px;
   font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu,
Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;

}



header h1 {
   text-align: center;
   font-size: 40px;
   color: white;

}
```

```
header {
    padding: 40px;
    background-color: rgba(143, 23, 17, 0.824);

}


nav {
    background-color: #333333a5;
    overflow: hidden;
}

nav a {
    text-decoration: none;
    padding: 20px;
    text-align: center;
    float: left;
    color: white;
}
a:hover{
    color:tomato;
    background-color: #fff;
}

main {
    background-color: white;
    text-align: center;
}
```


National Instiute of Engineering MCA Department
Home
Placement
College Reviews
Enquiry Now
About Department
Department of MCA
Established in 1997, this department offers Post-graduate course in Master of Computer Applications. With a policy of providing training and education related to industry trends and requirements, the department takes utmost care to nurture software skills in budding software engineers by conducting various training programmes in high-end technologies with active assistance from its teaching staff.
The Department of Master of Computer Applications (MCA) under the Computer Science Division of NIE, accredited by Visvesvaraya Technological University (VTU), was started in 1997 offering Post-graduate courses in Master of Computer Application and M.Tech. in Computer Network Engineering. Currently, the department offers only a Post Graduate course Master of Computer Applications. The programme provides a highly-varied learning orientation for students by balancing core courses, advanced elective courses and a substantial dissertation or project with constant revisions to the programme structure to match advancements in the field. This department contributes significantly to teaching and research.
Time table for the exam has been released.
Vision
"MCA will be an outstanding department contributing significantly to teaching, research and consultancy, through well-equipped laboratories and well-trained staff to meet global challenges in the field of Computer Engineering & Applications"
Mission
1. To impart quality technical education and provide
2. Skills in Computer Application through best of practices.
3. To produce graduates who can contribute
4. professionally to the society and widely as IT
Study Material
WEB DEVELOPMENT
This Book includes
ANDY VICKLER
Python Data Analytics
With Pandas, NumPy, and Matplotlib
Second Edition
Fabio Nelli
Apress
FUNDAMENTALS OF
DATABASE SYSTEMS
7th Edition
ELMASRI • NAVATHE
Introduction to
Machine Learning
Faculty details
Principal
Dr. Rohini Nagapadma
Dr.Rohini Nagapadma
YouTube
I take this opportunity to wish all the best to the freshers, who are beginning their engineering journey at NIE and assure their parents & guardians that the Institute will not spare any efforts to make them capable engineers.
The National Institute of Engineering (NIE) has been at the forefront of technical education in Karnataka, through the continuous implementation of Outcome Based Education (OBE), ensuring that our graduates are able to face up to the challenges demanded by the engineering profession. The system of OBE depends on a synchronous approach from all stake holders at NIE. The institute has made it a point to frequently interact with the industry, employers & parents to find avenues of education which will enrich the students' experience at NIE.
FAQ
Contact Us
Terms of Use
Privacy Policy
Refund Policy
© 2024 | NIE Mysuru

5. Scripts on Javascript basic tags.

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>
```

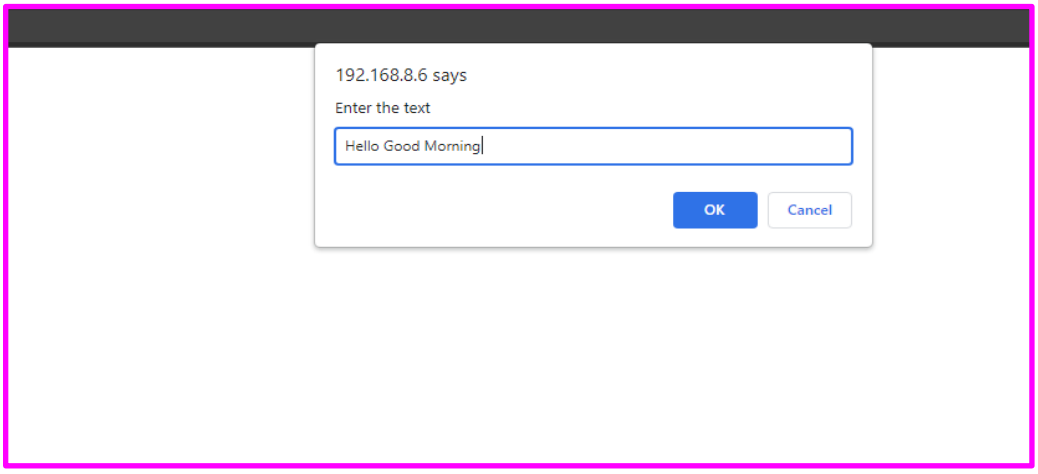


Fig. No. 17

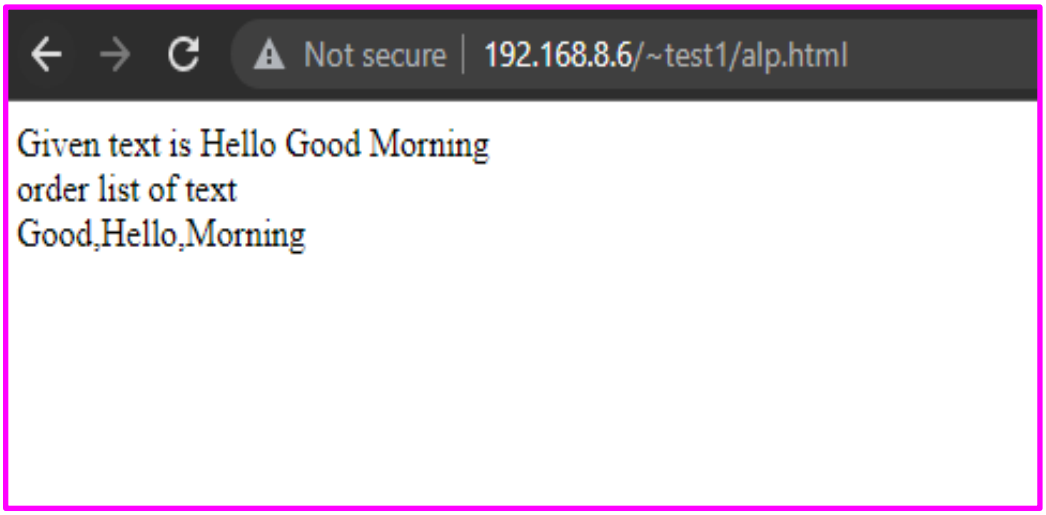


Fig. No. 18

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 +"<br/>");
```

```
        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

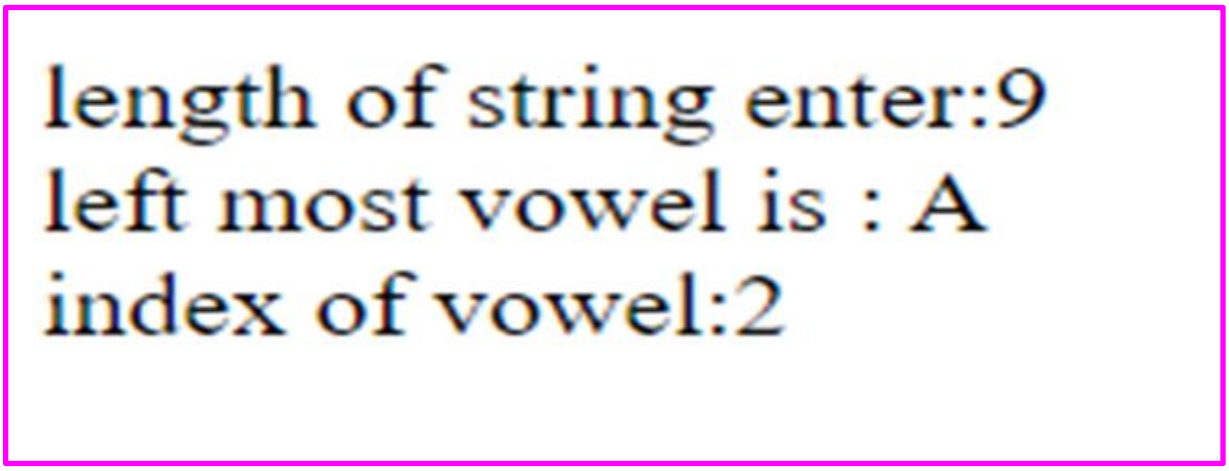


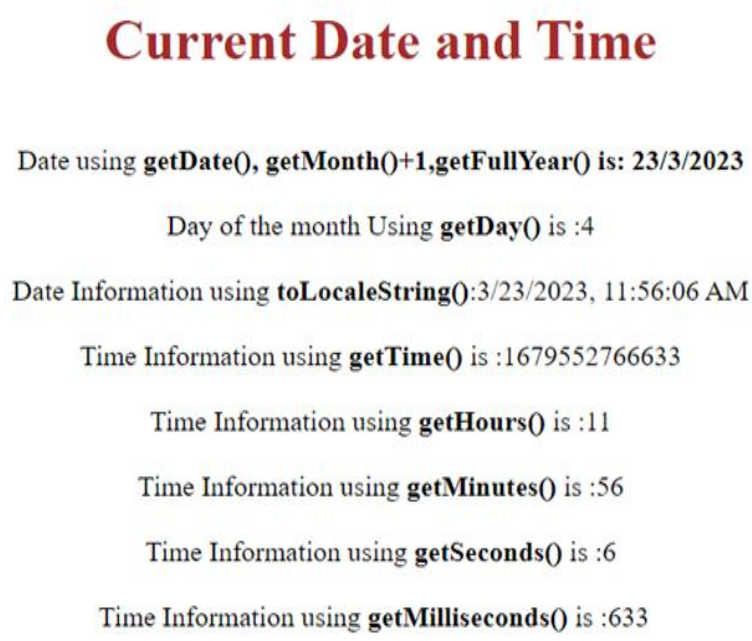
Fig. No. 20

6.Scripts on Javascript functions

1) 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:
"+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>");
var timeInfo=date.getTime();
document.write("Time Information using <b>getTime()</b> is :"+timeInfo);
document.write("<br>");
var hoursInfo=date.getHours();
document.write("Time Information using <b>getHours()</b> is :"+hoursInfo);
document.write("<br>");
var minutesInfo=date.getMinutes();
document.write("Time Information using <b>getMinutes()</b> is :"+minutesInfo);
document.write("<br>");
var secondsInfo=date.getSeconds();
document.write("Time Information using <b>getSeconds()</b> is :"+secondsInfo);
document.write("<br>");
var secondsInfo=date.getMilliseconds();
document.write("Time Information using <b>getMilliseconds()</b> is :"+secondsInfo);
</script>
</center>
</body>
</html>
```



2. **Simple calculator using JS**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="cal.css">
</head>
<body>
<h1><center><b>Simple Calculator using JS</b></center></h1>
<div class="container">
<div class="calculator">
<form>
<div class="display">
```

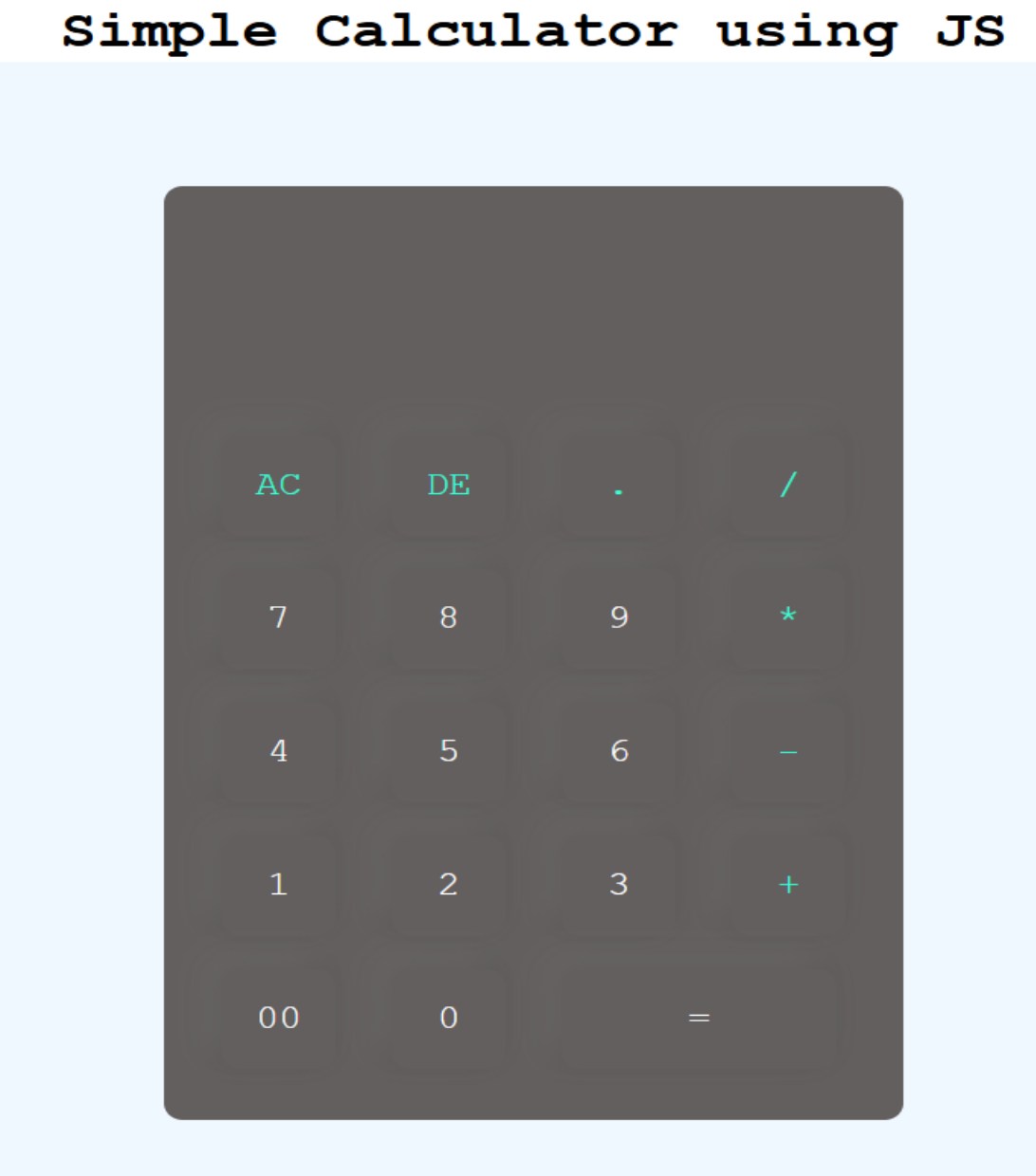
```
<input type="text" name="display">
</div>
<div>
<input type="button" value="AC" onclick="display.value ="" class="operator">
<input type="button" value="DE" onclick="display.value = display.value.toString().slice(0,-
1)" class="operator">
<input type="button" value="."  onclick="display.value +='.'" class="operator">
<input type="button" value="/"  onclick="display.value +='/'" class="operator">
</div>
<div>
<input type="button" value="7" onclick="display.value +='7'">
<input type="button" value="8"onclick="display.value +='8'">
<input type="button" value="9"onclick="display.value +='9'">
<input type="button" value="*"onclick="display.value +='*'" class="operator">
</div>
<div>
<input type="button" value="4" onclick="display.value +='4'">
<input type="button" value="5" onclick="display.value +='5'">
<input type="button" value="6" onclick="display.value +='6'">
<input type="button" value="-" onclick="display.value +='-'" class="operator">
</div>
<div>
<input type="button" value="1" onclick="display.value +='1'">
<input type="button" value="2" onclick="display.value +='2'">
<input type="button" value="3" onclick="display.value +='3'">
<input type="button" value="+" onclick="display.value +='+'" class="operator">
</div>
<div>
<input type="button" value="00"  onclick="display.value +='00'">
<input type="button" value="0"   onclick="display.value +='0'">
<input type="button" value="="   onclick="display.value = eval(display.value)"
```

```
class="equal" class="operator">
</div>
</form>
</div>
</div>
</body>
</html>
```

calculator.css

```
*{
  margin: 0px;
  padding:0px;
  font-family: 'Courier New', Courier, monospace;
  box-sizing: border-box;
}
.container{
    width: 100%;
    height:100vh;
    background-color: aliceblue;
    display: flex;
    align-items: center;
    justify-content: center;
}
.calculator{
    background-color:#635f5f;
    padding: 20px;
    border-radius: 10px;
}
.calculator form input{
    border: 0;
    outline: 0;
```

```
    width: 60px;
    height: 60px;
    border-radius: 10px;
    box-shadow: -8px -8px 15px rgba(255,255,255, 0.1),-5px -5px 15px rgba(0,0,0, 0.2);
    background:transparent;
    font-size: 20px;
    color: #fff;
    cursor: pointer;
    margin: 10px;
}
form .display{
     display: flex;
     justify-content: flex-end;
     margin: 20px 0;

}
form .display input{
    text-align: right;
    flex:1;
    font-size:45px;
    box-shadow: none;
}
form input.equal{
    width: 145px;
}
form input.operator{
    color: #33ffd8;
}
```


Simple Calculator using JS
AC
DE
.
/
7
8
9
*
4
5
6
−
1
2
3
+
00
0
=

7. Scripts on jQuery

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>
```

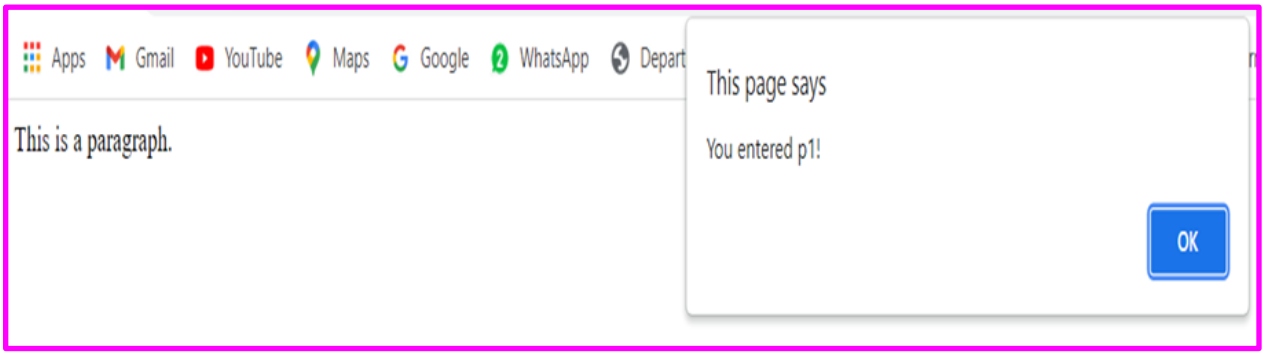


Fig. No. 26

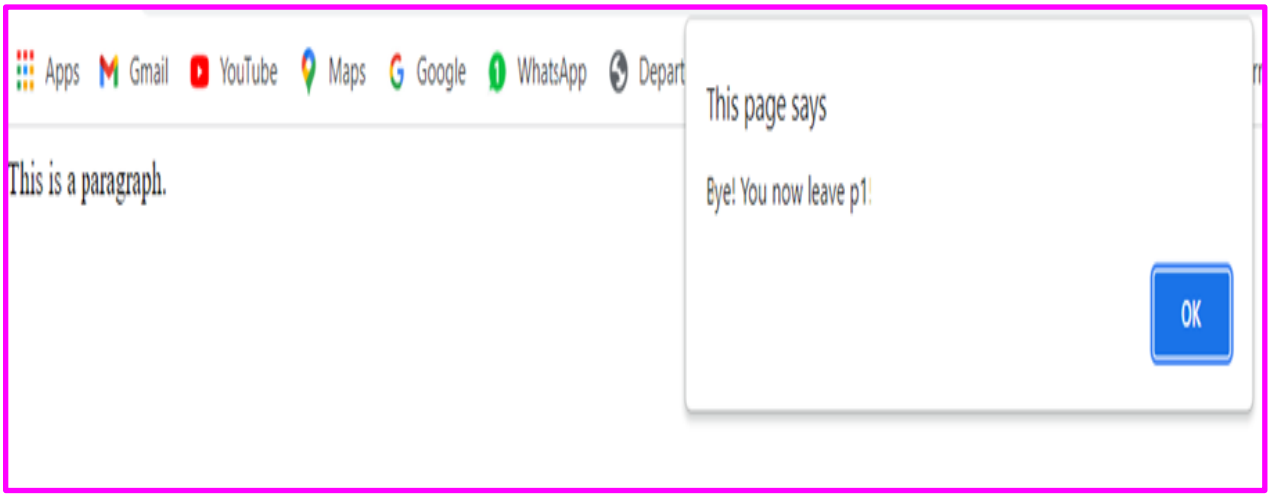


Fig. No. 27

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>
```

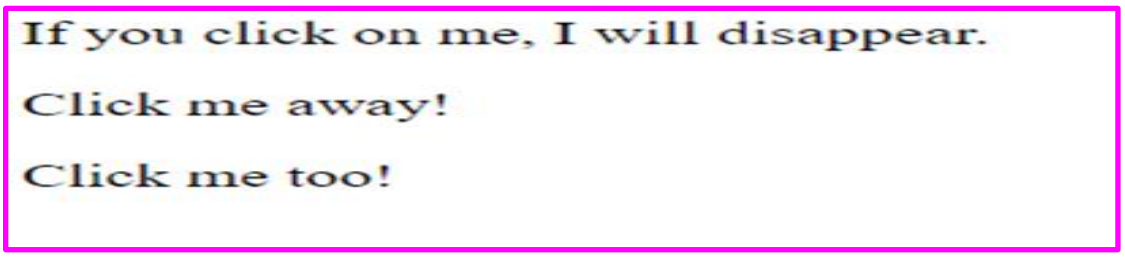


Fig. No. 28

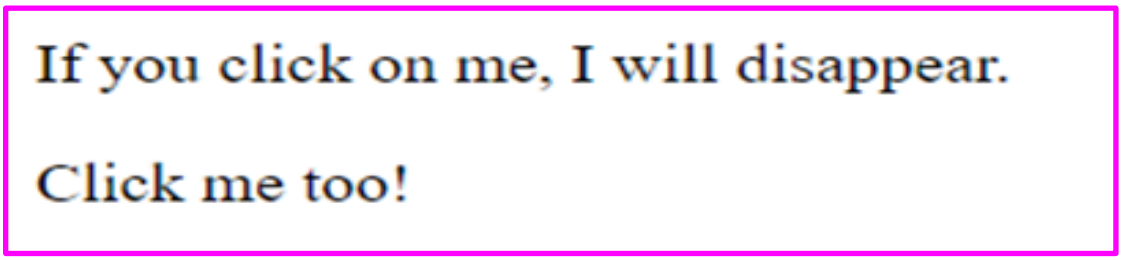


Fig. No. 29

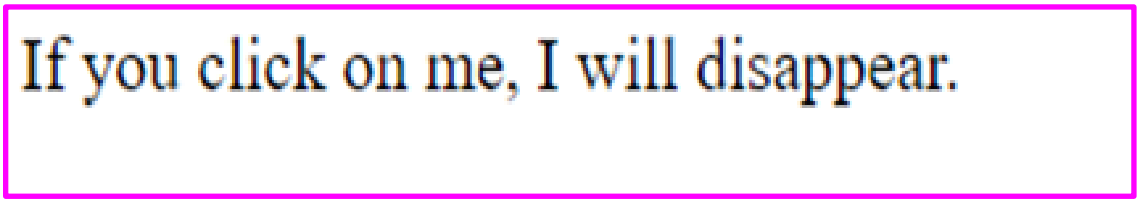


Fig. No. 30

8. Scripts on jQuery using HTML/CSS

1. 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>
```

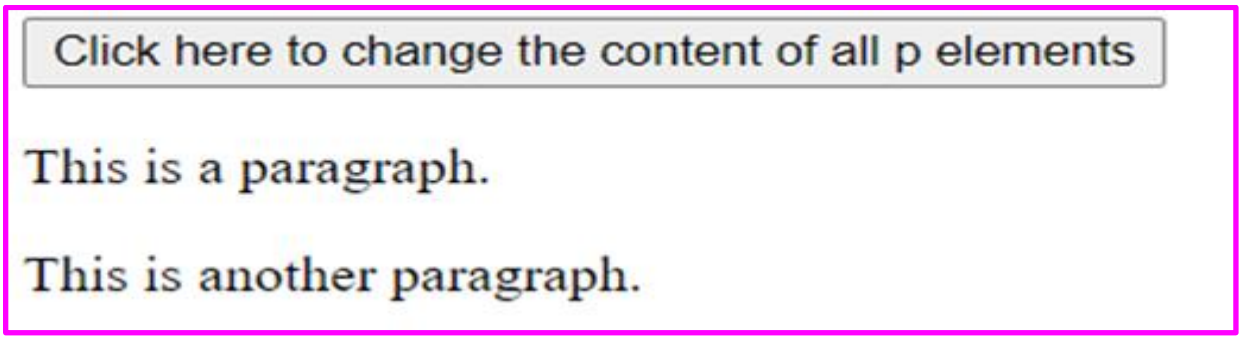


Fig. No. 31

Fig. No. 32

2. 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>
```

Fig. No. 33

OR

3. JQuery script using CSS

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <!DOCTYPE html>
    <head>
    <title>jQuery CSS</title>
    <style>
    .box {
    width: 100px;
```

```
height: 100px;
background-color: black;
margin: 10px;
float: left;
text-align: center;
color: white;
font-size: 20px;
line-height: 100px;
}
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
<script>
$(document).ready(function() {
$(".box").click(function() {
$(this).css("background-color", "blue");

});
});
</script>
</head>
<body>
<div class="box">1</div>
<div class="box">2</div>
<div class="box">3</div>
<div class="box">4</div>
</body>
</html>
```

Fig. No. 34

8.2. JQuery script using generate QR-Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>QR-Code</title>
    <link rel="stylesheet" href="qr.css">

</head>
<body>
<div class="container">
<p>Enter your text or URL</p>
<input type="text" placeholder="Text or URL" id="qrText">

<div class="imgbox">
<img src="" id="qrImage">
</div>
<button onclick="generateQR()">Generate QR Code</button>
```

```
</div>

<script>
let imgbox=document.getElementById("imgbox");
let qrImage=document.getElementById("qrImage");
let qrText=document.getElementById("qrText");

   function generateQR(){
      qrImage.src="https://api.qrserver.com/v1/create-qr-code/?size=150x150&data=" +
qrText.value;
}
</script>
</body>
</html>
```

qrcode.css

```
*{
   margin: 0;
   padding: 0;
   font-family: 'Courier New', Courier, monospace;
   box-sizing: border-box;
}
body{
   background: #262a2f;
}
.container{
   width: 400px;
   padding: 25px 35px;
   position: absolute;
   top:50%;
```

```
    left:50%;
    transform: translate(-50%,-50%);
    background: #fff;
    border-radius: 10px;
}
.container p{
    font-weight: 600;
    font-size: 15px;
    margin-bottom: 8px;
}
.container input{
    width: 100%;
    height: 50px;
    border: 1px solid #494eea;
    outline: 0;
    padding: 10px;
    margin: 10px 0 20px;
    border-radius:5px
}

.container button{
    width: 100%;
    height: 50px;
    background: #494eea;
    color: #fff;
    border:0;
    outline: 0;
    border-radius:5px;
    box-shadow: 0 10px 10px rgba(0,0,0,0.2);
    cursor: pointer;
    margin: 20px 0;
```

```
    font-weight:500;
}
.imgbox{
    display: flex;
    justify-content: center;
    align-items: center;
}
```

Fig. No. 35

9. Scripts on Angular JS

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>
```

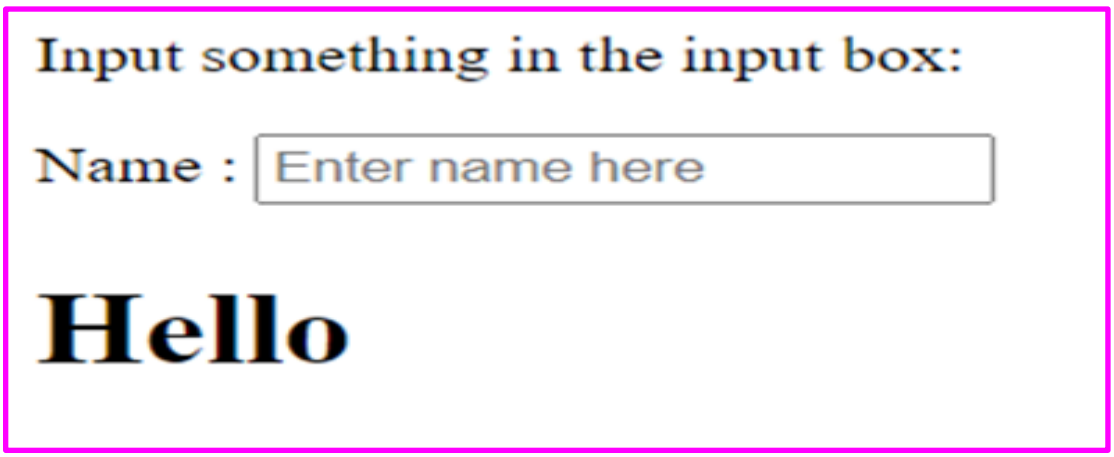


Fig. No. 36

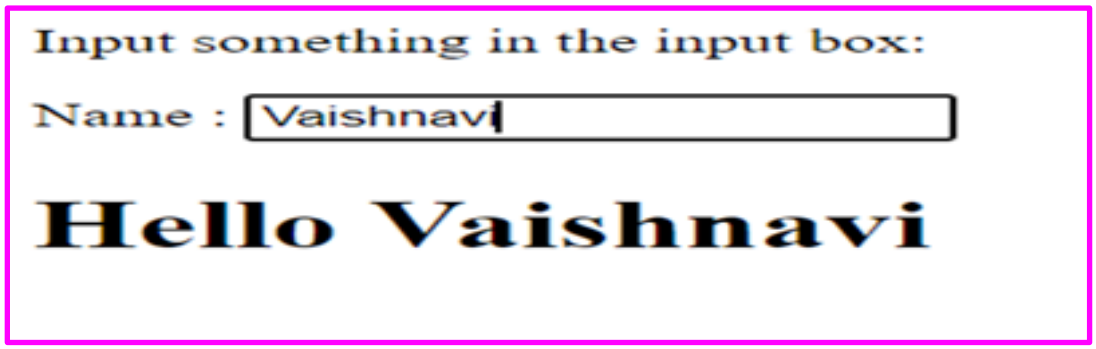


Fig. No. 37

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>
```

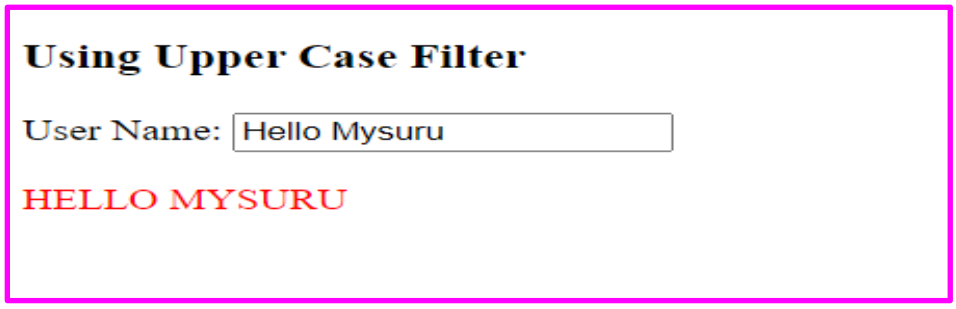


Fig. No. 38

10. Scripts on Advance Angular JS

1. 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. 39

Fig. No. 40

2. 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>
```

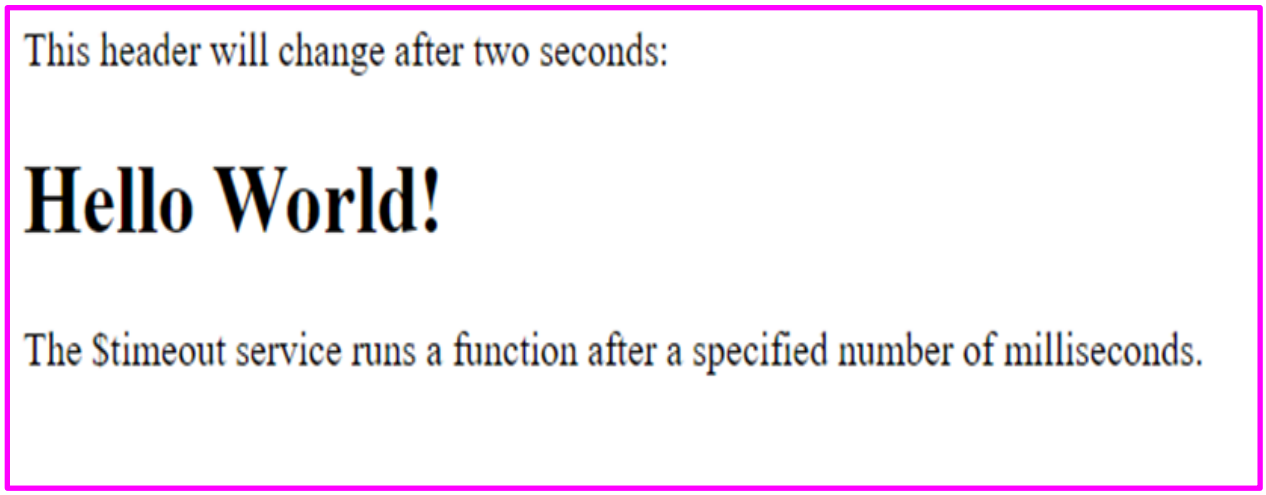


Fig. No. 39

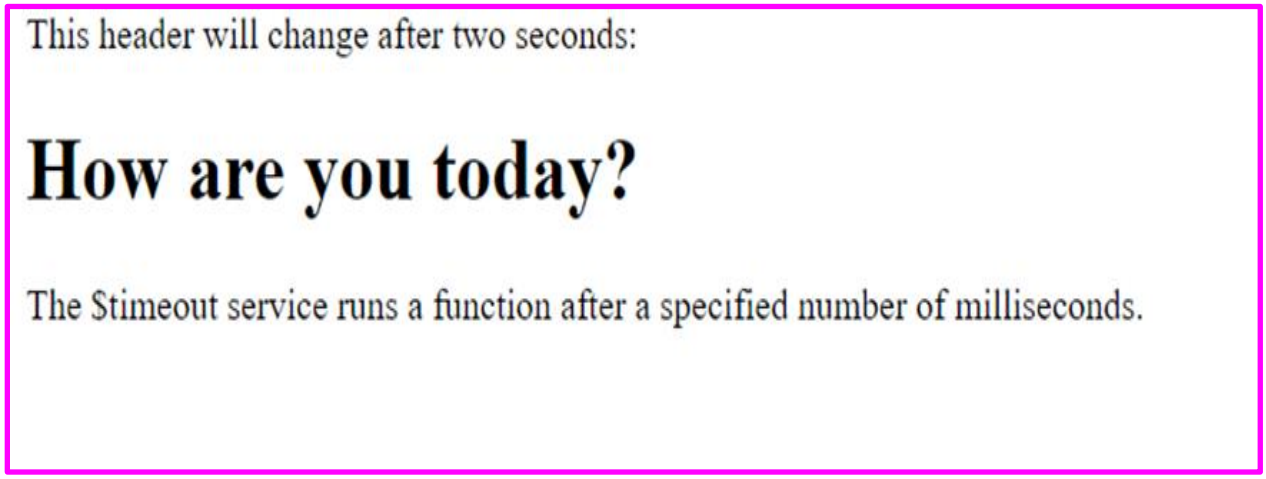


Fig. No. 40