DEPARTMENT OF INFORMATION TECHNOLOGY

Web & Internet Technology Laboratory Laboratory Manual VI Sem B.Tech



FACULTY NAME

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(An Autonomous Institute of Govt. of Maharashtra)

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE



This is to certify that this lab record contains the bonafide lab work of Vaishnavi Bhoyar having ID <u>19007019</u> of semester VI of B.Tech in **Information Technology** during academic year 2021-22 for the,

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Course Code:-ITU629

Date:-

Faculty (Prof. Bhushan Wakode)

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Course Web & Internet Technology Laboratory

Course Code :ITU629

Sr. No.	Name of Practical	Date of Performance	Pg no	Remark
1	Creating a web page using HTML tags.			
2	Creating a web page with all types of Cascading Style Sheet.			
3	Client side scripts for validating web page form controls using DHTML.			
4	Write program in Java to create three-tier application using JSP and databases • For conducting online examination • For displaying student marklist			
5	Write programs using XML Schema – XSLT/XLS			
6	Write program using AJAX			
7	Implementing python's Flask frame work to host a site on internet.			
8	Design the following static web pages required for an online book store web site. 1) HOME PAGE: The static home page must contain three frames. 2) LOGIN PAGE 3) CATOLOGUE PAGE: The catalogue page should contain the details of all the books available in the web site in a table. 4) REGISTRATION PAGE			
9	Write <i>JavaScript</i> to validate the following fields of the Registration page. 1. First Name (Name should contains alphabets and the length should not be less than 6 characters). 2. Password (Password should not be			

	 less than 6 characters length). 3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com) 4. Mobile Number (Phone number should contain 10 digits only). 5. Last Name and Address (should not be Empty). 		
10	Develop and demonstrate the usage of inline, internal and external style sheet using CSS.		
11	Develop and demonstrate JavaScript with POP-UP boxes and functions.		
12	Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next in the list. Add CSS to customize the properties of the font of the capital (color,bold and font size).		
13	Write an HTML page including any required JavaScript that takes a number from text field in the range of 0 to 999 and shows it in words. It should not accept four and above digits, alphabets and special characters.		
14	Develop and demonstrate PHP Script for the following problems: a) Write a PHP Script to find out the Sum of the Individual Digits. b) Write a PHP Script to check whether the given number is Palindrome or not		
15	Create an XML document that contains 10 users information. Write a Java Program, which takes User Id as input and returns the user details by taking the user information from XML document using DOM parser or SAX parser.		
16	Modify the above PHP program to use an xml instead of database		

Experiment No. 1

Aim : Creating a web page using HTML tags.

Theory:

What is HTML?

HTML (Hypertext Markup Language) is a text-based approach to describing how content contained within an HTML file is structured. This markup tells a web browser how to display the text, images and other forms of multimedia on a webpage.

HTML elements are the building blocks of HTML pages. With HTML constructs, <u>images</u> and other objects such as <u>interactive forms</u> may be embedded into the rendered page. HTML provides a means to create <u>structured documents</u> by denoting structural <u>semantics</u> for text such as headings, paragraphs, lists, <u>links</u>, quotes and other items. HTML elements are delineated by *tags*, written using <u>angle brackets</u>. Tags such as
introduce content into the page. Other tags such as surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

Tags used in HTML:

• Body tag

Description

The HTML **<body>** tag defines the main content of the HTML document or the section of the HTML document that will be directly visible on your web page. This tag is also commonly referred to as the **<body>** element.

Syntax

In HTML, the syntax for the **<body>** tag is:

```
<body>
```

• Title tag

Description

The HTML <title> tag is used for indicating the title of the HTML document. The body title is placed between the <head> and the </head> tags.

HTML document title is visible via browser's title bar.

Example

```
<head>
<title>Title comes here</title>
```

</head>

• Head tag

Description

The HTML <head> tag is used for indicating the head section of the HTML document. Tags included inside head tags are not displayed on browser window.

Example

```
<html>
<head>
<title>HTMLs head Tag</title>
</head>
<body>
actual content goes here
</body>
</html>
```

Font tag

Fonts play a very important role in making a website more user friendly and increasing content readability. Font face and color depends entirely on the computer and browser that is being used to view your page but you can use HTML **font**> tag to add style, size, and color to the text on your website. You can use a **basefont**> tag to set all of your text to the same size, face, and color.

The font tag is having three attributes called **size**, **color**, and **face** to customize your fonts. To change any of the font attributes at any time within your webpage, simply use the tag. The text that follows will remain changed until you close with the tag. You can change one or all of the font attributes within one tag.

```
<body>
     <font size = "1">Font size = "1"</font><br/>
     <font size = "2">Font size = "2"</font><br/>
</body>
```

Bold tag

The tag should be used to markup text as bold without conveying any extra importance, for example in article abstracts, where the beginning of an article is set in bold text. It should *not* be used to convey extra importance. To convey extra importance, use the tag. To emphasize text, use the tag.

Syntax

The tag is written as with the text to be bold inserted between the start and end tags.

Example:

<body>

bold text

</body>

• <h>tag

Description

The HTML <h1> to <h6> tag is used to define headings in an HTML document. <h1> defines largest heading and <h6> defines smallest heading.

Example

```
<br/>
<h1>Around the World</h1>
<h2>Asian Countries</h2>
<h3>India</h3>
</body
```

Image tag

Description

The HTML tag is used to put an image in an HTML document.

Example

```
<br/><body>
<img src = "https://www.tutorialspoint.com/images/html.gif"
<br/>alt = "HTML Tutorial" height = "150" width = "140" />
</body>
```

• P tag

Description

The HTML tag defines a paragraph of text.

Example

</body>

```
<head>
<title>HTML p Tag</title>
</head>
<body>
This paragraph is defined using the HTML p tag
```

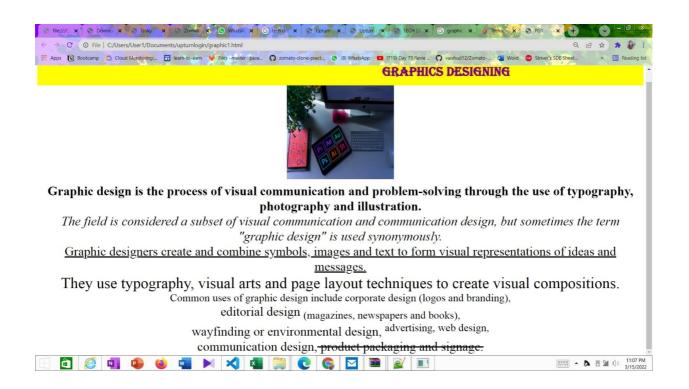
<A> tag

The <a> tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

Program:

```
<html>
<head><title>PG1</title></head>
<body background color="pink">
<marquee behavior="Alternate" bgcolor="yellow"><h1><FONT face="Algerian"</pre>
COLOR="PURPLE" SIZE="355">GRAPHICS DESIGNING</FONT></h1></marquee>
<center><img src="C:\Users\User1\Documents\upturnlogin\css\img\4.jpg" height="350"</pre>
width="400"></center>
<center><FONT COLOR="BLACK" size="350">
<B>Graphic design is the process of visual communication and problem-solving through the use of
typography, photography and illustration.</B><BR>
<i>The field is considered a subset of visual communication and communication design, but
sometimes the term "graphic design" is used synonymously.</i>
<u>Graphic designers create and combine symbols, images and text to form visual representations of
ideas and messages.</u>
<br/><br/>big>They use typography, visual arts and page layout techniques to create visual
compositions.</big><br>
<small>Common uses of graphic design include corporate design (logos and branding),</small><br/>br>
editorial design <sub>(magazines, newspapers and books),</sub><br>
wayfinding or environmental design, <sup>advertising, web design, </sup></br>
communication design,<strike> product packaging and signage.</strike><br/>design,<strike> font>
</h2>
</body>
</html>
```



Conclusion: Thus, we have created a web page using html.

Experiment No. 02

AIM: Creating a web page with all types of Cascading Style Sheet.

Theory:

Styling HTML with CSS

CSS stands for Cascading Style Sheets.

CSS describes how HTML elements are to be displayed on screen, paper, or in other media.

CSS saves a lot of work. It can control the layout of multiple web pages all at once.

CSS can be added to HTML elements in 3 ways:

- Inline by using the style attribute in HTML elements
- Internal by using a <style> element in the <head> section
- External by using an external CSS file

The most common way to add CSS, is to keep the styles in separate CSS files. However, here we will use inline and internal styling, because this is easier to demonstrate, and easier for you to try it yourself.

Inline Cascading Style Sheet:

An inline CSS is used to apply a unique style to a single HTML element.

An inline CSS uses the style attribute of an HTML element.

This example sets the text color of the <h1> element to blue:

<h1 style="color:blue;">This is a Blue Heading</h1>

Internal Cascading Style Sheet:

An internal CSS is used to define a style for a single HTML page.

An internal CSS is defined in the <head> section of an HTML page, within a <style> element:

External Cascading Style Sheet:

An external style sheet is used to define the style for many HTML pages.

With an external style sheet, you can change the look of an entire web site, by changing one file!

To use an external style sheet, add a link to it in the <head> section of the HTML page:

```
Procedure:
STEP 1: Start
STEP 2: Open Notepad.
STEP 3: Write HTML code using different HTML tags with Cascading Style Sheet.
STEP 4: Save the notepad document with .html extension.
STEP 5 : Open (.html) file in web browser to see web page.
STEP 6: Stop
Code:
<!doctype html>
<html lang="en">
   <head>
       <!-- Required meta tags -->
       <meta charset="utf-8">
       <meta name="viewport" content="width=device-width, initial-scale=1">
       <title>Ecommerce Product Card</title>
       <!---->
       <link rel="stylesheet" href="style.css">
       <!----Font CDN Link---->
       link
                                            rel="stylesheet"
                                                                                                                href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/font-awesome/4.7.0/css/
awesome.min.css">
   </head>
   <body>
       <div class="container">
          <div class="navbar_container">
              <div class="logo_container">
                 <img src="./image/logo1.png">
              </div>
              <div class="navlinks" id="navlinks_container">
                  <div class="navlinks">
                     <a href="#" class="active">Home</a>
                     <a href="#">Services</a>
                     <a href="#">Blog</a>
```

About

```
<a href="#">FAQ</a>
     </div>
    </div>
    <div class="button">
     <a href="" class="search"></i>>i class="fa fa-search"></i></a>
    </div>
   </div>
   <div class="banner">
    <div class="left">
    <div class="left inner container">
     <h2><span>Subscribe Now</span><br>to Our Newsletter</h2>
     Lorem ipsum dolor sit amet consectetur adipisicing elit. Doloribus id adipisci, deleniti ab
pariatur delectus, totam tempore accusamus beatae cupiditate culpa voluptas.
     <div class="box">
       <form>
        <input type="text" placeholder="Name">
        <input type="email" placeholder="Email">
        <button class="button2" type="button" name="button">Send<i class="fa fa-caret-right"></i></ibutton>
       </form>
     </div>
    </div>
   </div>
   <div class="right">
    <div class="right_inner_container">
     <img id="intro" src="./image/plane.png">
     <img id="intro1" src="./image/message.png">
    </div>
   </div>
   </div>
   <div class="bottomline"></div class="minline"></div></div>
  </div>
 </body>
</html>
```

```
Css:
*{
 margin: 0;
 padding: 0;
 box-sizing: border-box;
body{
 font-family: 'Be vietnam', sans-serif;
 overflow: hidden;
html\{
 font-size: 62.5%;
.container{
 background: #20364b;
 position: relative;
.navbar\_container\{
 width: 100%;
 position: absolute;
 height: 10rem;
 background: transparent;
 display: flex;
 justify-content: space-around;
 align-items: center;
 padding: 0% 10% 0% 10%;
.logo_container{
 width: 15%;
 display: flex;
 justify-content: center;
 align-items: center;
. navlinks \{
```

```
font-size: 2rem;
 width: 100%;
 text-align: right;
.navlinks a \{
 text-decoration: none;
 font-size: 1.5rem;
 color: #fff;
 padding-right: 40px;
 font-weight: 600;
.navlinks a.active,
. navlinks \ a : hover \{
 color: #eab31d;
.search{
 background: #fdc11f;
 width: 40px;
 height: 40px;
 border-radius: 50%;
. search \ i \{
 position: relative;
 font-size: 16px;
 background: #fdc11f;
 padding: 10px;
 border-radius: 50%;
 color: #253a49;
.button\{\\
 margin-top: 8px;
 background-color: #70683b;
 padding: 7px;
 border-radius: 50%;
```

```
}
.banner\{\\
 height: 70rem;
 display: flex;
 width: 100%;
 justify-content: center;
.left, .right{
 height: 100%;
 width: 50%;
 display: flex;
 justify-content: flex-end;
 align-items: flex-end;
. right \{\\
 justify-content: flex-start;
 background-image: url(image/right1.png);
 background-position: center left;
 background-repeat: no-repeat;
 max-width: 100%;
.left\_inner\_container\{
 height: 75%;
 display: block;
 flex-direction: column;
 justify-content: space-between;
 align-items: flex-start;
 width: 80%;
.left\_inner\_container\ h2\{
 font-size: 37pt;
 width: 49rem;
 line-height: 42pt;
 color: #fff;
```

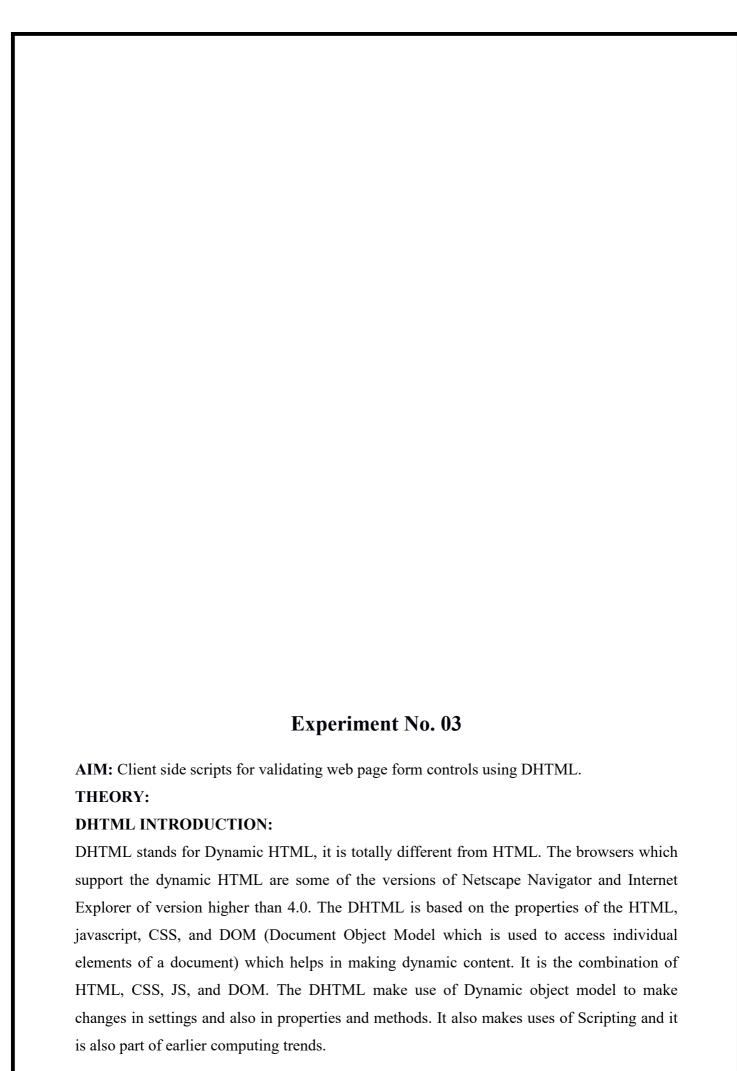
```
}
.left_inner_container h2 span{
 color: #fdc11f;
. in fo \{
 margin-top: 20px;
 font-size: 11pt;
 width: 40rem;
 line-height: 14pt;
 word-spacing: 2px;
 color: #fff;
.right_inner_container{
 height: 77%;
 display: flex;
 flex-direction: column;
 justify-content: space-between;
 align-items: flex-start;
 width: 80%;
.box input,
.box button{
 display:block;
.box{
 margin-top: 20px;
.box input{
 width: 290px;
 height: 40px;
 border-radius: 20px;
 outline: none;
 border: none;
```

```
margin-bottom: 25px;
 padding-left: 30px;
.box input::placeholder{
 font-weight: light;
 font-size: 11pt;
.box\ .button 2\{
 width: 150px;
 height: 50px;
 border-radius: 56px;
 outline: none;
 border: none;
 background: #fdc11f;
 font-size: 18px;
 color: #20364b;
.button2\ i\{
 margin-left: 5px;
}
#intro {
 width: 10%;
 margin-left: 40px;
 margin-top: 20px;
}
#intro1 {
 width: 10%;
 margin-bottom: 173px;
 margin-left: -73px;
```

```
bottomline \{
 width: 150px;
 height: 5px;
 background-color: #445668;
 display: inline-block;
 margin: auto;
 position: absolute;
 bottom: 90px;
 left: 44%;
 text-align: center;
 border-radius: 10px;
.minline \{\\
 display: inline-block;
 background: #fdc11f;
 width: 40px;
 height: 5px;
 position: absolute;
border-radius: 10px;
left: 40px;
```



CONCLUSION: thus successfully implemented html web site using css



DHTML allows different scripting languages in a web page to change their variables, which enhance the effects, looks and many others functions after the whole page have been fully loaded or under a view process, or otherwise static HTML pages on the same. But in true ways, there is noting that as dynamic in DHTML, there is only the enclosing of different technologies like CSS, HTML, JS, DOM, and different sets of static languages which make it as dynamic.

DHTML is used to create interactive and animated web pages that are generated in real-time, also known as dynamic web pages so that when such a page is accessed, the code within the page is analyzed on the web server and the resulting HTML is sent to the client's web browser.

Key Features:

Following are the some major key features of DHTML:

- Tags and their properties can be changed using DHTML.
- It is used for real-time positioning.
- Dynamic fonts can be generated using DHTML.
- It is also used for data binding.
- It makes a webpage dynamic and be used to create animations, games, applications along with providing new ways of navigating through websites.
- The functionality of a webpage is enhanced due to the usage of low-bandwidth effect by DHTML.
- DHTML also facilitates the use of methods, events, properties, and codes.

Why Use DHTML?

DHTML makes a webpage dynamic but Javascript also does, the question arises that what different does DHTML do? So the answer is that DHTML has the ability to change a webpages look, content and style once the document has loaded on our demand without changing or deleting everything already existing on the browser's webpage. DHTML can change the content of a webpage on demand without the browser having to erase everything else, i.e. being able to alter changes on a webpage even after the document has completely loaded.

Advantages:

- Size of the files are compact in compared to other interactional media like Flash or Shockwave, and it downloads faster.
- It is supported by big browser manufacturers like Microsoft and Netscape.
- Highly flexible and easy to make changes.

Viewer requires no extra plug-ins for browsing through the webpage that uses DHTML, they do

not need any extra requirements or special software to view it.

• User time is saved by sending less number of requests to the server. As it is possible to modify

and replace elements even after a page is loaded, it is not required to create separate pages

for changing styles which in turn saves time in building pages and also reduces the number of

requests that are sent to the server.

• It has more advanced functionality than a static HTML. it is capable of holding more content on

the web page at the same time.

Disadvantages:

• It is not supported by all the browsers. It is supported only by recent browsers such as

Netscape 6, IE 5.5, and Opera 5 like browsers.

Learning of DHTML requires a lot of pre-requisites languages such as HTML, CSS, JS, etc should

be known to the designer before starting with DHTML which is a long and time-consuming in

itself.

Implementation of different browsers are different. So if it worked in one browser, it might

not necessarily work the same way in another browser.

• Even after being great with functionality, DHTML requires a few tools and utilities that are

some expensive. For example, the DHTML text editor, Dreamweaver. Along with it the

improvement cost of transferring from HTML to DHTML makes cost rise much higher.

Difference between HTML and DHTML:

HTML is a markup language while DHTML is a collection of technologies.

HTML is used to create static webpages while DHTML is capable of creating dynamic webpages.

• DHTML is used to create animations and dynamic menus but HTML not used.

HTML sites are slow upon client-side technologies whereas DHTML sites are comparatively

•

faster.

Web pages created using HTML are rather simple and have no styling as it uses only one

language whereas DHTML uses HTML, CSS, and Javascript which results in a much better and

way more presentable webpage.

• HTML cannot be used as server side code but DHTML used as server side code.

DHTML needs database connectivity but not in case of HTML.

Files in HTML are stored using .htm or .html extension while DHTML uses .dhtm extension.

• HTML requires no processing from the browser but DHTML does.

Procedure:

STEP 1 : Start

STEP 2 : Open Notepad.

STEP 3: Write HTML code using different HTML tags and make use of function using

```
Javascript.
STEP 4 : Save the notepad document with .html extension.
STEP 5 : Open (.html) file in web browser to see web page.
STEP 6: Stop
Code:
<html>
 <title>registeration form</title>
 k rel="stylesheet" type="text/css" href="style.css">
 <div class="container">
 <h1>REGISTRATION FORM</h1>
 <form name="registration" class="registartion-form" onsubmit="return</pre>
formValidation()">
     <label for="name">Name:</label>
    <input type="text" name="name" id="name" placeholder="your name">
   <label for="email">Email:</label>
    <input type="text" name="email" id="email" placeholder="your email">
<label for="password">Password:</label>
    <input type="password" name="password" id="password">
   <label for="phoneNumber">Phone Number:</label>
    <input type="number" name="phoneNumber" id="phoneNumber">
```

```
<label for="gender">Gender:</label>
    Male: <input type="radio" name="gender" value="male">
     Female: <input type="radio" name="gender" value="female">
     Other: <input type="radio" name="gender" value="other">
   <label for="Course">Course</label>
    <select name="language" id="course">
      <option value="BTech">Btech</option>
      <option value="BCA">BCA</option>
      <option value="Bpharma">Bpharma
      <option value="BSC">BSC</option>
      <option value="Mtech">Mtech</option>
     </select>
    <label for="Course Name">Department Name:</label>
                 <input type="text" name="Department Name" id="Department
name" placeholder="Department Name">
   <label for="about">About:</label>
```

```
<textarea name="about" id="about" placeholder="Write about
yourself..."></textarea>
   <input type="submit" class="submit" value="Register" >
   <script language="javascript">
    onclick="Register" (alert("sucessfully"));
   </script>
  </form>
</div>
<script src="script.js"></script>
</html>
Javascript:
// Select all input elements for varification
const name = document.getElementById("name");
const email = document.getElementById("email");
const password = document.getElementById("password");
const phoneNumber = document.getElementById("phoneNumber");
const gender = document.registration;
const CourseName = document.getElementById("CourseName");
const DepartmentName= document.getElementById("DepartmentName");
const Register= document.getElementById("Register");
// function for form varification
function formValidation() {
```

```
// checking name length
 if (name.value.length < 2 | | name.value.length > 20) {
 alert("Name length should be more than 2 and less than 21");
 name.focus();
 return false;
// checking email
if (email.value == ""){
   window.alert(
     "Please enter a valid e-mail address.");
   email.focus();
   return true;
 }
// checking password
if (!password.value.match(/^.{5,15}$/)) {
 alert("Password length must be between 5-15 characters!");
 password.focus();
 return false;
}
// checking phone number
if (!phoneNumber.value.match(/^[1-9][0-9]{9}$/)) {
 alert("Phone number must be 10 characters long number and first digit can't be 0!");
 phoneNumber.focus();
 return false;
// checking gender
if (gender.value === "") {
 alert("Please select your gender!");
```

```
return false;
 }
// checking CourseName
 if (CourseName.value == ""){
  alert("Please select your CourseName!");
  return false;
 }
 if (Register.value != ""){
   alert("Form Submitted Successfully");
 return true;
}
}
Css:
* {
  margin: 0
 }
.container {
  display: flex;
justify-content: center;
  align-items: center;
  flex-direction: column;
  height: 100vh;
  background-color: #52e6a6;
```

```
}
 .container h1 {
  color: rgb(27, 13, 13);
  font-family: sans-serif;
  margin: 20px;
 }
 .registartion-form {
  display: flex;
  justify-content: center;
  align-items: center;
  width: 600px;
  color: rgb(255, 255, 255);
  font-size: 18px;
  font-family: sans-serif;
  background-color: #9efade;
  padding: 20px;
.registartion-form input,
 .registartion-form select,
 .registartion-form textarea {
  border: none;
  padding: 5px;
  margin-top: 10px;
  font-family: sans-serif;
```

```
.registartion-form input:focus,
.registartion-form textarea:focus {
box-shadow: 3px 3px 10px rgb(242, 239, 239), -3px -3px 10px rgb(224, 224, 224);
.registartion-form .submit {
width: 100%;
padding: 8px 0;
font-size: 20px;
color: rgb(44, 44, 44);
background-color: #ba5c5c;
border-radius: 5px;
}
.registartion-form .submit:hover {
box-shadow: 3px 3px 6px rgb(255, 214, 176);
}
  🕟 Bootcamp 🙆 Cloud Monitoring... 🗖 learn-to-earn 😾 Files master - pave... 🔘 :
                                 REGISTERATION FORM
                                                                                          ■ • • ■ (1) 11:40 PM 4/5/2022
                                                                                      Concl
```

usion: Thus we have validated web page form controls using DHTML.

Experiment No. 04 **AIM:** Write programs in java to create three-tier application using JSP and databases: • For conducting online examination For displaying student mark list. THEORY: Java Server Pages (JSP): Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based applications. JSP have access to the entire family of Java APIs, including the JDBC API to access enterprise databases. Why Use JSP?: Java Server Pages often serve the same purpose as programs implemented using the Common Gateway Interface (CGI). But JSP offers several advantages in comparison with the CGI.

• Performance is significantly better because JSP allows embedding Dynamic Elements in

HTML Pages itself instead of having separate CGI files.

JSP are always compiled before they are processed by the server unlike CGI/Perl which
requires the server to load an interpreter and the target script each time the page is
requested.

Java Server Pages are built on top of the Java Servlets API, so like Servlets, JSP also has
access to all the powerful Enterprise Java APIs, including JDBC, JNDI, EJB, JAXP, etc.

 JSP pages can be used in combination with servlets that handle the business logic, the model supported by Java servlet template engines.

Finally, JSP is an integral part of Java EE, a complete platform for enterprise class applications. This means that JSP can play a part in the simplest applications to the most complex and demanding.

Three-tier architecture:

A three-tier architecture is any system, which enforces a general separation between the following three parts:

1. Client Tier or user interface

2. Middle Tier or business logic

3. Data Storage Tier

Applied to web applications and distributed programming, the three logical tiers usually correspond to the physical separation between three types of devices or hosts:

1. Browser or GUI Application

2. Web Server or Application Server

3. Database Server (often an RDBMS or Relational Database)

However, inside of the application server, there is a further division of program code into three logical tiers. This is kind of fractal: the part (app server object design) resembles the whole (physical system architecture). In a classic JSP/Servlet system, these objects are usually implemented as:

1. JSPs or Servlets responsible for creating HTML or WML user interface pages

2. Servlets or JavaBeans responsible for business logic

3. Servlets, JavaBeans, or Java classes responsible for data access. These objects usually use JDBC to query the database.

Code:

Newjsp.jsp:

<%--

```
Created on: Feb 23, 2011, 7:19:15 PM
  Author
            : A
--%>
<%@page contentType="text/html" pageEncoding="UTF-8"%> <!DOCTYPE</pre>
HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
  "http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head>
     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
     <title>Examination Panel</title>
  </head>
  <body bgcolor="cyan">
     <%@ page language="java" %>
<%@ page import ="java.sql.*" %>
<%
String reg= request.getParameter("txt_reg"); String name =
request.getParameter("txt_name"); out.println("<h2>Welcome" + name +
"...Your Register number is " + reg + "!!</h2><br><br>>");
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver"); String sTable = "exam";
String sSql = "SELECT * FROM " + sTable + "";
String database = "jdbc:odbc:sDBQ";
Connection cn = null;
Statement st = null;
ResultSet rs = null;
try {
cn = DriverManager.getConnection( database ,"sa",""); st =
cn.createStatement();
rs = st.executeQuery( sSql );
ResultSetMetaData rsmd = rs.getMetaData();
```

```
int i=1;
while(rs.next())
{
out.println("<form name='exam' action='newjsp2.jsp'
method='post'><b>"+i+" . " +
rs.getString(1) + "</b><br>");
s1 = rs.getString(2);
s2 = rs.getString(3);
s3 = rs.getString(4);
s4 = rs.getString(5);
out.println("<input type=radio name=opt"+i+" value="+s1+" CHECKED>"+ s1
+" <br>");
out.println("<input type=radio name=opt"+i+" value="+s2+">" + s2
+"<br>");
out.println("<input type=radio name=opt"+i+" value="+s3+">" + s3
+"<br>");
out.println("<input type=radio name=opt"+i+" value="+s4+">" + s4
+"<br>"); i++;
}
out.println("<input name ='submit' value='Submit' type='submit'/>"); /*int n
= rsmd.getColumnCount();
out.println( "" );
for(int i=1; i<=n; i++) // Achtung: erste Spalte mit 1 statt 0
out.println( "" + rsmd.getColumnName( i ) + "" );
while( rs.next() )
{out.println("");
for(int i=1; i<=n; i++) // Achtung: erste Spalte mit 1 statt 0 o ut.println( "<td
nowrap>" + rs.getString( i ) + "" ); }
out.println( "" );*/
}finally {
```

```
if( null != rs )
rs.close();
} catch( Exception ex ) {}
try {
if( null != st )
st.close();
} catch( Exception ex ) {}
try {
if( null != cn )
cn.close();
} catch( Exception ex ) {}
}
%>
</body>
</html>
Newjsp1.jsp:
<%--
Document
               : index
Created on: Feb 9, 2011, 6:50:54 PM
Author: A
--%>
<%@page contentType="text/html" pageEncoding="UTF-8"%> <!DOCTYPE</pre>
HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Welcome to Online Examination</title>
</head>
<body bgcolor="cvan">
```

```
<form name="index" action="newjsp.jsp" method="post">
<center><h1><span><font color="red">Welcome to Online
Examination</font></span></h1>
<br>
<h2><u><span><font color="blue">Instructions to the
Candidates</font></span></u></h2>
<br><h3>Fill the correct Registration number.<br>Enter your
name. <br>Read the questions carefully.
<br>No negative marking.</h3>
<br>
<b>Enter your Register number</b>
<input type="text" name="txt_reg">
<br/><b>Enter your Name</b>
<input type="text" name="txt_name"><br><br>
<input name ="submit" value="Submit" type="submit"/>
</center>
</form>
</body>
</html>
Newjsp2.jsp:
<%--
Document
              : report
Created on: Feb 23, 2011, 9:09:37 PM
Author: A
--%>
<%@page
import="com.sun.java.swing.plaf.windows.resources.windows_es"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%> <!DOCTYPE</pre>
HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Exam Report</title>
</head>
<body><br/>body bgcolor="cyan"></br>
<center><h1>Your Report Card</h1></center> < @ page
language="java" %> <%@ page import ="java.sql.*" %>
<%
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
String sTable = "exam";
String sSql = "SELECT * FROM " + sTable + "";
String database = "jdbc:odbc:sDBQ";
Connection cn = null;
Statement st = null;
ResultSet rs = null;
try {
cn = DriverManager.getConnection( database ,"sa",""); st =
cn.createStatement();
rs = st.executeQuery( sSql );
ResultSetMetaData rsmd = rs.getMetaData();
String s1,s2,s3,s4;
int i=1;
int correct=0,incorrect=0,total=0;
out.println("<h2><br><center><table border=1 cellpadding=2
cellspacing=2>QuestionYour AnswerCorrect
AnswerStatus");
while(rs.next())
total++;
```

s1 = rs.getString(1);

```
s2 = request.getParameter("opt"+i);
s3 = rs.getString(6);
if(s2.equals(s3))
{ s4="Correct";
correct++;
}
else
{ s4="Incorrect";
incorrect++;
}
out.println(""+s1+""+s2+""+s3+""+s4+"
");
i++;
}
out.println("<br><br><br>Correct
Answers"+correct+"");
out.println("Incorrect Answers"+incorrect+"");
out.println("Total
Questions"+total+"</b></center></h2>");
}
finally {
try { if( null != rs ) rs.close(); } catch( Exception ex ) {} try { if( null != st )
st.close(); } catch( Exception ex ) {} try { if( null != cn ) cn.close(); }
catch( Exception ex ) {} }
%>
</body>
</html>
Output:
```

Welcome to Online Examination			
Instructions to the	: Candidates		
1. Fill the correct Registration number.			
2. Enter your name.			
3. Read the questions carefully.			
4. No negative marking.			
Enter your Register number 40108104028	Enter your Name homa		
Submr.			

WelcomehemaYour Register number is 40108104025!!				
1 . what is the capital of india				
● a chennai				
⊙ b.mumbai				
⊙ c.Deltii				
⊙dgca				
2 , what is our national flower?				
● a lotus				
○ b.rose				
🔍 e jassoine				
○ d bily				
3 . when india got world cup?				
© a 1981				

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Controlled to the total of the			
©axellejtell			
o . Witatus the captain of Judian circkettean			
© 5e			
©Niadami			
♥ sechia			
© (Bravit			
Which Prime Minister has sented the largest?			
Midiotine Caralli			
Noderbur Candili Sewahar Lai Nobra A. P. Abdell Kallen The Man Mohan, Singh			
○Dawahar Lai Nohra ○A. P. Abdril Kallam			
Sewager Lei Notre A P Abort Colore For Mant Johan Singh Submit	ort Card		
○ Jewahar I. al Nohra ○ A. P. Arbrid Eslam ○ For ManWokan Singh	ort Card		
○ Jawasan I. al Notra ○ A. P. Abhill Calon ○ Ter ManNoskas Singh Superit	ort Card		
Olewaner I. al Notra Ole Pichard Kellem The Martifolian Singh Submit Your Repo	ort Card Your Answer	Correct Answer	Status
Oswanar Lai Notra A P Abrill Eslam Tre Maritinian Singh Submit Your Repo		Correct Answer	Status Correct
Obswanar Lai Notra A Paracrii Kallen For Marticolar, Singh Submit	Your Answer		
Obswanar Lal Notra On Probabilitishen Tar Martholan Singh Sapent Your Repo Question what is the capital of india what is our national flower?	Your Answer c.Delhi	c.Delhi	Correct
Observator Lal Notes OA Parcell Estate OThe Martifolian Single Your Repo Question what is the capital of india what is our national flower? when india got world cup?	Your Answer c.Delhi a.lotus	c.Delhi a.lotus	Correct Correct
Observator Lel Nictra OA Parteril Estan OTH Martholan Singh Submit	Your Answer c.Delhi a.lotus a.1983	c.Delhi a.lotus a.1983	Correct Correct

Conclusion:-Thus in this practical, we have implemented a program in java to create three-tier application using JSP and databases.

Experiment - 5

Aim:- Write programs using XML Schema- XSLT/XLS

Theory:-

XML:

- XML stands for eXtensible Markup Language.
- XML was designed to store and transport data.
- XML was designed to be both human- and machine-readable.

XML Schema:

- An XML Schema describes the structure of an XML document.
- The XML Schema language is also referred to as XML Schema Definition (XSD).

Example:

The purpose of an XML Schema is to define the legal building blocks of an XML document:

- the elements and attributes that can appear in a document
- the number of (and order of) child elements
- data types for elements and attributes

default and fixed values for elements and attributes

One of the greatest strength of XML Schemas is the support for data types.

- 4. It is easier to describe allowable document content
- 5. It is easier to validate the correctness of data
- 6. It is easier to define data facets (restrictions on data)
- 7. It is easier to define data patterns (data formats)
- 8. It is easier to convert data between different data types

XSLT:

- 4. XSL (eXtensible Stylesheet Language) is a styling language for XML.
- 5. XSLT stands for XSL Transformations.

How XSLT Works:

An XSLT stylesheet is used to define the transformation rules to be applied on the target XML document. XSLT stylesheet is written in XML format. XSLT Processor takes the XSLT stylesheet and applies the transformation rules on the target XML document and then it generates a formatted document in the form of XML, HTML, or text format. This formatted document is then utilized by XSLT formatter to generate the actual output which is to be displayed to the end-user.

XSL:

Before learning XSLT, we should first understand XSL which stands for EXtensible Stylesheet Language. It is similar to XML as CSS is to HTML.

Need for XSL:

In case of HTML document, tags are predefined such as table, div, and span; and the browser knows how to add style to them and display those using CSS styles. But in case of XML documents, tags are not predefined. In order to understand and style an XML document, XCL is needed. An XSL document specifies how a browser should render an XML document.

Following are the main parts of XSL:

- 4. XSLT used to transform XML document into various other types of document.
- 5. XPath used to navigate XML document.

6. XSL-FO – used to format XML document.

ALGORITHM:

```
Step 1: Start the program
```

Step 2: Use Xml Style Sheet code to define link <?xml-stylesheet type="text/xsl" href="yourxsl.xsl"?>

Step 3: Use the catalog tag to define CD collection details.

Step 4: Use the necessary heading for appropriate XML tag.

Step 5: Provide necessary information for CD collection details

Step 6: Stop the program

Code:-

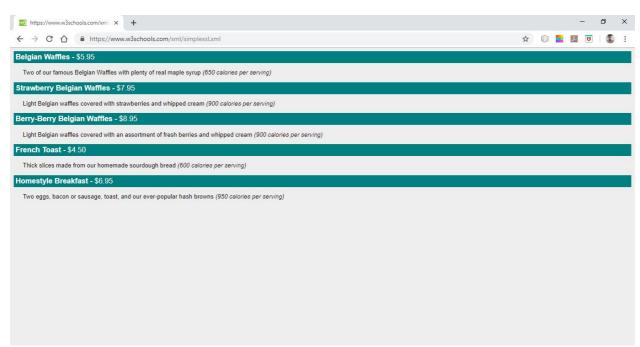
XML File:

```
<?xml version="1.0" encoding="UTF-8"?>
<breakfast_menu>
<food>
<name>Belgian Waffles</name>
<pri><price>$5.95</price>
<description>Two of our famous Belgian Waffles with plenty of real maple
syrup</description>
<calories>650</calories>
</food>
<food>
<name>Strawberry Belgian Waffles</name>
<pri><price>$7.95</price>
<description>Light Belgian waffles covered with strawberries and whipped
cream</description>
<calories>900</calories>
</food>
```

```
<food>
<name>Berry-Berry Belgian Waffles</name>
<pri><price>$8.95</price>
<description>Light Belgian waffles covered with an assortment of fresh
berries and whipped cream</description>
<calories>900</calories>
</food>
<food>
<name>French Toast</name>
<pri><price>$4.50</price>
<description>Thick slices made from our homemade sourdough
bread</description>
<calories>600</calories>
</food>
<food>
<name>Homestyle Breakfast</name>
<price>$6.95</price>
<description>Two eggs, bacon or sausage, toast, and our ever-popular hash
browns</description>
<calories>950</calories>
</food>
</breakfast_menu>
```

XSLT Stylesheet:

Output:-



Conclusion:-

Thus, in this practical we have studied and created XML document using XML Schema, XSLT.

Experiment No. 06

Aim:- Write programs using AJAX

Theory:-

AJAX stands for **A**synchronous **Ja**vaScript and **X**ML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Java Script.

- Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display.
- Conventional web applications transmit information to and from the sever using synchronous requests. It means you fill out a form, hit submit, and get directed to a new page with new information from the server.
- With AJAX, when you hit submit, JavaScript will make a request to the server, interpret the results, and update the current screen. In the purest sense, the user would never know that anything was even transmitted to the server.
- XML is commonly used as the format for receiving server data, although any format, including plain text, can be used.
- AJAX is a web browser technology independent of web server software.
- A user can continue to use the application while the client program requests information from the server in the background.
- Intuitive and natural user interaction. Clicking is not required, mouse movement is a sufficient event trigger.
- Data-driven as opposed to page-driven.

Rich Internet Application Technology

AJAX is the most viable Rich Internet Application (RIA) technology so far. It is getting tremendous industry momentum and several tool kit and frameworks are emerging. But at the same time, AJAX has browser incompatibility and it is supported by JavaScript, which is hard to maintain and debug.

AJAX is Based on Open Standards

AJAX is based on the following open standards -

- Browser-based presentation using HTML and Cascading Style Sheets (CSS).
- Data is stored in XML format and fetched from the server.

- Behind-the-scenes data fetches using XMLHttpRequest objects in the browser.
- JavaScript to make everything happen.

AJAX cannot work independently. It is used in combination with other technologies to create

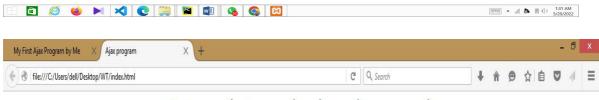
JavaScrip	vt
7.	Loosely typed scripting language.
8.	JavaScript function is called when an event occurs in a page.
9.	Glue for the whole AJAX operation.
DOM	
9.	API for accessing and manipulating structured documents.
10.	Represents the structure of XML and HTML documents.
CSS	
10.	Allows for a clear separation of the presentation style from the content and may be changed programmatically by JavaScript
XMLHttp	P. Request
•	JavaScript object that performs asynchronous interaction with the server.
Prograr	n:
Ajax-da	ta.txt
<html></html>	
<body></body>	
<font fa<="" td=""><td>ce="pristina" size="20px">Let's see the image has been disappeared !!</td>	ce="pristina" size="20px">Let's see the image has been disappeared !!
<td>></td>	>
	>
Index.h	tml
DOCT</td <td>YPE html></td>	YPE html>

<neau>

```
<title>Ajax program</title>
<script>
functionloadXMLDoc()
{
varxmlhttp;
if (window.XMLHttpRequest)
xmlhttp = new XMLHttpRequest();
}
else
{
xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
}
xmlhttp.onreadystatechange = function()
{
if (xmlhttp.readyState == 4 &&xmlhttp.status == 200)
 {
document.getElementById("myImage").innerHTML = xmlhttp.responseText;
 }
}
xmlhttp.open("GET","ajax-data.txt",true);
xmlhttp.send();
}
</script>
```

<body style="text-align: center;"> <!--An image goes here to test the Ajax program.--> <div id="myImage"> <h2>Click the button below to make the image disappear.</h2> <imgsrc="image8.jpg" width="500px" height="300px" title="Yellow Flower" alt="an image of a yellow flower"/> </div>
 <!--A button goes here--> <button type="button"onclick="loadXMLDoc()">Click here to make the picture disappear!</button> </body> </html> Output:-Click the button below to make the image disappear.





Let's see the image has been disappeared!!

Click here to make the picture disappear!

Conclusion :-	
Thus, in this practical, we have studied about AJAX and also created a program using AJAX.	
Experiment No. 7	
Aim:- Implementing python's Flask frame work to host a site on internet.	
Theory:-	
Flask	
Flask is a lightweight WSGI web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around Werkzeug and Jinja and has become one of the most popular Pythoweb application frameworks.	n
Flask offers suggestions, but doesn't enforce any dependencies or project layout. It is up to the developer to choose the tools and libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.	
Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools. Extensions are updated far more frequently than the core Flask program.	;-

Features:

- Development server and debugger
- Integrated support for unit testing
- RESTful request dispatching
- Uses Jinja templating
- Support for secure cookies (client side sessions)
- 100% WSGI 1.0 compliant
- Unicode-based
- Extensive documentation
- Google App Engine compatibility
- Extensions available to enhance features desired

Example:

The following code shows a simple web application that displays "Hello World!" when visited:

```
from flask import Flask
app = Flask(__name__)

@app.route("/")
def hello():
    return "Hello World!"

if __name__ == "__main__":
    app.run()
```

Implementing the flask server:

1: First import the library.

from flask import Flask

```
2: Then create a Flask object
app = Flask(__name__)
3: Specify the function which will execute when a certain URL is accessed. Specify it using
@app.route("/"), where <site_name>'/' will execute the following function.
def hello():
  return "Hello World!"
4: Run the server from the object created earlier.
app.run()
HTML CODE: (which should be located in a folder called 'templates')
Uses Jinja2 template, to place the processed data onto the webpage.
Base.html
<!doctype html>
<html>
   <head>
       <title>{{ the title }}</title>
       <link rel="stylesheet" href="static/hf.css"/>
   </head>
   <body>
       {% block body %}
       {% endblock %}
   </body>
</html>
Entry.html
{% extends 'base.html' %}
{% block body %}
< h2 > \{\{ the title \}\} < /h2 >
```

```
<form method='POST' action='/results'>
 Fill the details: 
Age:<input name='age' type='TEXT' >
Gender:<input name='gender' type='TEXT'</td>
When you're ready, click this button:
<input value='See The Results' type='SUBMIT'>
</form>
{% endblock %}
Results.html
{% extends 'base.html' %}
{% block body %}
< h2 > \{\{ the title \}\} < /h2 >
 < b > \{\{ the name \}\} < b > Here Are Your Results 
 You will get married at the age of <math>
<h3>{{ the_results }}</h3>
{% endblock %}
CSS CODE: (which should be located in a folder named 'static' with the name 'hf.css')
body {
```

jont-jamily:

v eraana, Geneva, Ariai, sans-serij;

```
font-size:
             medium;
 background-color: tan;
 margin-top: 5%;
 margin-bottom: 5%;
 margin-left: 10%;
 margin-right: 10%;
         1px dotted gray;
 border:
padding: 10px 10px 10px 10px;
a {
 text-decoration: none;
font-weight: 600;
}
a:hover {
 text-decoration: underline;
}
a img {
border:
         0;
}
h2 {
font-size: 150%;
table {
margin-left: 20px;
 margin-right: 20px;
 caption-side: bottom;
 border-collapse: collapse;
td, th {
```

padaing:

```
text-align:
             left;
.copyright {
font-size:
            75%;
font-style:
            italic;
.slogan {
font-size:
            75%;
font-style:
             italic;
.confirmentry {
font-weight: 600;
/*** Tables ***/
table {
font-size:
         1em;
background-color: #fafcff;
        1px solid #909090;
border:
color: #2a2a2a;
         5px 5px 2px;
padding:
border-collapse: collapse;
td, th {
border: thin dotted gray;
/*** Inputs ***/
```

inpui[iype=texi] {

```
font-size:
               115%;
 width:
               30em;
input[type=submit] {
 font-size:
               125%;
select {
 font-size:
               125%;
BACKEND CODE:
Marriage.py
from random import randint
def marriage(age: int) -> list:
  x = int(randint(0,50)) + int(age)
  if x in [0,1,2,3,4,5,6,7,8,9,10]:
     r = 'You seem to be getting married soon!!!'
  if x in [11,12,13,14,15,16,17,18,19,20]:
     r = 'Teenage Turtle!!!'
  if x in [21,22,23,24,25,26,27,28,29,30]:
     r = 'Youth getting FRUIT!!!'
  if x in [31,32,33,34,35,36,37,38,39,40]:
     r = "What you were doing in your 20's?"
  if x in [41,42,43,44,45,46,47,48,49,50]:
     r = 'I think you are well settled at this age, ehh?'
  if x in [51,52,53,54,55,56,57,58,59,60]:
     r = Looks like you are getting married after your RETIREMENT'
  if x in [61,62,63,64,65,66,67,68,69,70]:
     r = 'How are you doing OLDY???'
```

ij x in [/1,/2,/3,/4,/3,/0,//,/8,/9,80]:

```
r = "What you've been doing in your YOUNG age?"
  if x > 80:
     r = "I don't think so you'll be alive till then!!!"
  found = [x,r]
  return (found)
FLASK SERVER CODE:
Marriageweb.py
from flask import Flask
from flask import render template
from flask import request
from marriage import marriage
app = Flask(name)
@app.route('/')
@app.route('/entry')
def entry page() -> 'html':
  return render template('entry.html', the title = 'Know When You Are Getting Married!!!')
@app.route('/results', methods = ['POST'])
def result_page() -> 'html':
  name = request.form['name']
  age = request.form['age']
  gender = request.form['gender']
  result = marriage(age)
  if gender == 'M' or gender == 'Male':
     return render template('results.html', the title = 'HEY BOY!!! Your Result Looks
Amazing: ', the name = name, the results = result,)
```

```
elif gender == 'F'or gender == 'Female':
```

return render template('results.html',

the_title = 'HEY GIRL!You are trying to cheat me!! Your true age is more
than you entered I guess!!! Your Result Looks Amazing By The Way: ',

else:

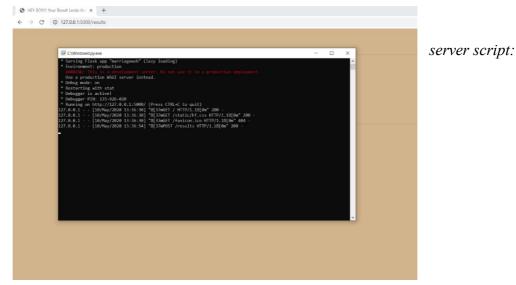
return render_template('results.html', the_title = 'Hey 6! Your Result Looks quite Hilarious', the name = name, the results = "--, You Guys Don't Marry I Guess!")

```
if name == ' main ':
```

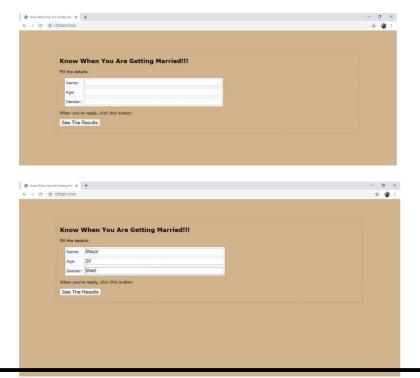
app.run(debug=True, port='5000')

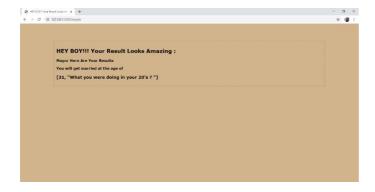
OUTPUT:

Run the



Access the local host along with the port name mentioned in the server program which will open the site:





Conclusion: So, the flask server has been implemented successfully and the site has been hosted on the local host without any error.

EXPERIMENT NO.8

Design the following static web pages required for an online book store web site.

- 1) **HOME PAGE:** The static home page must contain three frames.
- 2) LOGIN PAGE
- **3) CATOLOGUE PAGE:** The catalogue page should contain the details of all the books available in the web site in a table.
- 4) REGISTRATION PAGE

Aim: Design the following static web pages required for online book store.

- 1. Home page:- the static home page must contains three pages
- **2. Top frame:-** logo and college name and links to homepage, login page, registration page and catalogue page
- **3.** Left frame:- at least four links for navigation which will display the catalogue of Respective links
- **4. Right frame:** the pages to links in the left frame must be loaded here initially it Contains the description of the website.

DESCRIPTION: In this program the entire web paged are created by using basic HTML tags. Home page is divided into 3 frames by using <frameset> and <frame> tags. A frame is used to display a web page within a web page.

<frameset>:

- The <frameset> tag defines a frameset.
- The <frameset> element holds one or more <frame> elements.
- Each <frame> element can hold a separate document.

• The <frameset> element specifies HOW MANY columns or rows there will be in the frameset, and HOW MUCH percentage/pixels of space will occupy each of them.

<frame>:

- The <frame> tag defines one particular window (frame) within a <frameset>.
- Each <frame> in a <frameset> can have different attributes, such as border, scrolling, the ability to resize, etc.

PROGRAM:



```
<form action="order.html">
>
Book: Web Technologies <br/>
Author: NP Gopalan <br/>
Publication:Oxford University Press
531    
<input type="submit" value="Add to cart"/> 
<img src="images/python.jpg" width=100 height=100/>
Book: Python Head first <br/>br> Author:Paul Barry <br/>br> Publication:PEARSON 898
    
<input type="submit" value="Add to cart"/>   </form>
</body> </html>
Cse.html
<html>
<head><title>CSE</title></head>
<body bgcolor="cyan">
<center><font color="blue"><h1>Computer Science and Engineering</h1></font></center> <br/>br>
Text Books
<select >
<option value="select the book" selected>Select the book <option value="C&Ds">C&Ds <option</pre>
value="Ads">Ads
```

```
<option value="Oracle">Oracle
<option value="Ms SQL Server">Ms SQL Server <option value="MySql">MySql
</select>
>
Quantity
<input type="text" id="q">
>
>
<form method=post action="order.html">
<input type="submit" value=ok />
</form>
<center>
 Cost of one book is"500" + shipping "100"  </center>
</body>
</html>
Ese.html
<html>
<body bgcolor="Plum">
<h1><font color="blue">Electronics and Communication Engineering</font></h1>
<h2>
Digital Circuits Signals and Systems Digital Communication 
</h2>
```

```
</body>
</html>
Eee.html
<html>
<body bgcolor="Plum">
<h1><font color="blue">Electrical and Electronics Engineering</font></h1> <h2>
ul type="square">
Concepts in Electric CircuitsIi>Introduction to Electronic Engineering/li>Electrical
Power
</h2>
</body>
</html>
Left.html
<html>
<body align="center" bgcolor="bisque"> <br>
<a href="cse.html" target="rightframe"><font size="6">CSE</font></a>><br><br><a href="ece.html"</td>
target="rightframe"><font size="6">ECE</font></a><br>><a href="eee.html"
target="rightframe"><font size="6">EEE</font></a><br><a href="mech.html"
target="rightframe"><font size="6">MECH</font></a><br>
</body>
</html>
Login.html
<html>
<body bg color="powderblue">
<basefont face="Cambria" size="4"> <br>
<center>
<img src="images/login.png" width="385" height="135" /><br/>br /> <font face="Brush Script MT" size="7"</pre>
color="purple">
<br/>b>Enter Login Details:</b>
</font>
```

```
</center>
<form name="f1" method="post" action="right.html">
 <b<Login ID:</b>
<input type="text" name="t1">
<b>Password:</b>
<input type="password" name="t2"> 
<tmput type="reset" name="b1" value="Submit"><tmput type="reset" name="b2"
value="Reset">
</form>
                 </basefont>
                             </body></html>
Mech.html
<html>
<body bgcolor="Plum">
<h1><font color="blue">Electronics and Communication Engineering</font></h1> <h2>

    type="I">

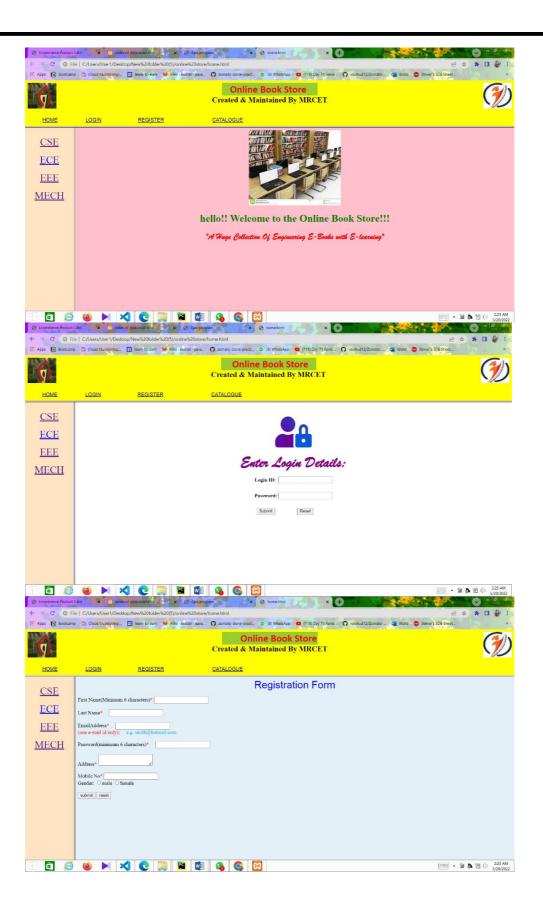
Theory of Machines
Automation and Robotics
Engineering Fluid Mechanics
</h2>
</body>
</html>
Order.html
<html>
<head><title>order conformation</title></head> <body bgcolor="cyan">
<center>
<strong>
<br/>b>Your order Is Conformed
```



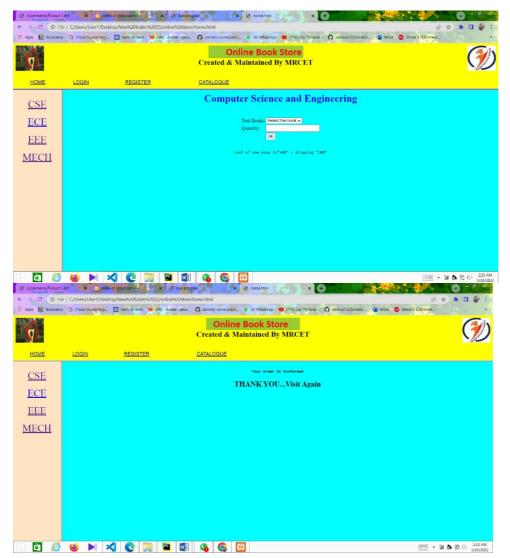
```
<h2><b>THANK YOU...Visit Again</h2>
</center>
</body>
</html>
Registration.html
<html>
<head><title>Registration Form</title></head>
<br/><body bgcolor="#E4F0F8">
<center><font color="blue" size="6" face="arial">Registration Form</font></center><br/>form
action="right.html">
First Name(Minimum 6 characters)<font color="red">* </font> <input type='text' id='firstname' /><br/>br
/><br/>
Last Name<font color="red"><font color="red">* </font> </font> &nbsp;&nbsp; &nbsp; &input
type='text' id='lastname' /><br />
EmailAddress<font color="red">* </font> &nbsp;&nbsp; <input type='text' id='email' /><br/>
<font color="red">(one e-mail id only):</font> &nbsp;&nbsp;&nbsp; <font color="redblue">e.g.
smith@hotmail.com</font><br/>
Password(minimum 6 characters)<font color="red">* </font> &nbsp;&nbsp;&nbsp; <input
type='password' id='pass'><br/>
Address<font color="red">* </font> <textarea rows="2" cols="20" id='addr' /></textarea> <br/>br /> <br/>
Mobile No<font color="red">* </font> <input type='text' id='mobileno' /><br />
Gender: <input type='radio' name="gender">male
<input type='radio' name="gender">female<br/>br/><br /> <input type='Submit' value='submit' /> <input</pre>
type='Reset' value='reset' />
</form>
</body>
</html>
Right.html
<html>
<body bgcolor="pink">
<center>
<img src="images/book.jpg" height="236"><br> <font face="Times new Roman"</pre>
size="6" color="green">
<h1><b>hello!! Welcome to the Online Book Store!!!</b></font><br /> <font
face="Brush Script MT" size="4" color="red">
<h2><b> "A Huge Collection Of Engineering E-Books with E-
```

```
</body>
</html>
Top.html
<html>
<head>
<title>Top Frame</title>
</head>
<body bgcolor="yellow">
<img src="images/logo.jpg" width="90" height="80" align="left">
<img src="images/cse.jpg" width="90" height="80" align="right"> <center>
<marquee bgcolor="YellowGreen" width="300" behavior="alternate">
<font face="calibri" size="6" color="Red"><b>Online Book Store</b> </font>
</marquee> <br>
<font face="Brush Script" size="5" color="black"><b>Created & Maintained By
MRCET</b></font>
</center>
<br>

 <a href="Home.html" target="_parent"><font face="arial" size="3"
 <a href="login.html" target="rightframe"><font face="arial" size="3"
 <a href="registration.html" target="rightframe"><font face="arial"
 <a href="catalogue.html" target="rightframe"> <font face="arial" size="3"
color="navy">CATALOGUE</a> 
</body>
</html>
```







Conclusion:

Thus successfully implemented html websites

EXPERIMENT NO:9

Write JavaScript to validate the following fields of the Registration page.

- 1. First Name (Name should contains alphabets and the length should not be less than 6 characters).
- **2. Password** (Password should not be less than 6 characters length).
- **3.** E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)
- **4. Mobile Number** (Phone number should contain 10 digits only).
- 5 Last Name and Address (should not be Empty)

AIM: To validate the fields of registration page using JavaScript

DESCRIPTION: In order to validate the fields of login and registration pages JavaScript is used. JavaScript is programming code that can be inserted into HTML pages. JavaScript inserted into HTML pages, can be executed by all modern web browsers. JavaScript is mainly used for validating the elements in a form submitted by the user. This JavaScript code can react to user events.

PROGRAM: After clicking OK button the page is redirected to success.html <html>

```
<head><title>Registration Form
   Validation</title></head> <body bgcolor="#E4F0F8">
    <script type='text/javascript'>
      function formValidator()
       {
      // Make quick references to our fields
      var firstname = document.getElementById('firstname');
      var lastname = document.getElementById('lastname');
      var email = document.getElementById('email'); var pass
      = document.getElementById('pass');
      var addr = document.getElementById('addr');
      var mobileno = document.getElementById('mobileno');
      / Check each input in the order that it appears in the form!
if(notEmpty(firstname, "can not be null")){
 if(isAlphabet(firstname, "Please enter only letters for your
   Firstname")){ if(lengthRestriction(firstname, 6)){
     if(isAlphabet(lastname, "Please enter only letters for your
      Lastname")){ if(emailValidator(email, "Please enter a valid email
      address")){
        if(lengthRestriction(pass, 6)){
          if(isAlphanumeric(pass, "please enter Numbers and Letters Only for
            password")){ if(notEmpty(addr, "please enter the address")){
              if(isNumeric(mobileno, "Please enter a valid mobileno")){
```

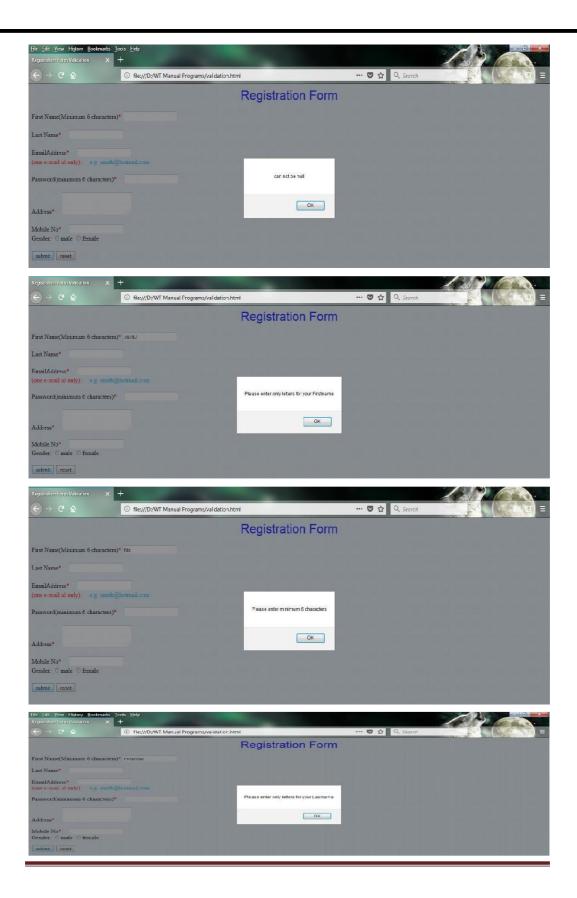
```
return true;
                             } } }
       return false;
  }
function notEmpty(elem, helperMsg){
       if(elem.value.length == 0){
              alert(helperMsg);
              elem.focus(); // set the focus to this input
              return false;
       return true;
     }
function isNumeric(elem, helperMsg){
       var numericExpression = /^[0-9]+$/;
       if(elem.value.match(numericExpression)){
        return true;
       }else{
              alert(helperMsg);
              elem.focus();
              return false;
       }
```

```
function isAlphabet(elem, helperMsg){
       var\ alphaExp = /^[a-zA-Z]+\$/;
       if(elem.value.match(alphaExp)){
               return true;
       }else{
               alert(helperMsg);
               elem.focus();
               return false;
function\ is Alphanumeric (elem,\ helper Msg) \{
       var\ alphaExp = /^[0-9a-zA-Z]+\$/;
       if(elem.value.match(alphaExp)){
               return true;
       }else{
               alert(helperMsg);
               elem.focus();
               return false
function lengthRestriction(elem, min){
       var uInput = elem.value;
       if(uInput.length >= min){
               return true;
       }else{
               alert("Please enter minimum " +min+ " characters");
```

elem.focus();

```
return false;
       }
function emailValidator(elem, helperMsg)
    {
var\ emailExp = /^[\w\-\+] + @[a-zA-Z0-9\-] + .[a-zA-z0-9] {2,4} $/;
       if(elem.value.match(emailExp))
              return true;
       else {
              alert(helperMsg);
              elem.focus();
              return false;
            }
    }
function lengthRestriction1(elem, min, max)
    {
       var uInput = elem.value;
       if(uInput.length >= min && uInput.length <= max)
              return true;
       else {
              alert("Please enter 10 numbers only");
```

```
return false;
           }}
    </script>
<center><font color="blue" size="6" face="arial">Registration Form</font></center><br/>br
/> <form onsubmit='return formValidator()' action="right.html">
  First Name(Minimum 6 characters)<font color="red">*
       </font> <input type='text' id='firstname' /><br />
  Last Name<font color="red"><font color="red">* </font> </font> &nbsp;&nbsp;
      <input type='text' id='lastname' /><br /><br />
  Email Address<font color="red">* </font> &nbsp;&nbsp;&nbsp;
      <input type='text' id='email' /><br />
      <font color="red">(one e-mail id only):</font> &nbsp;&nbsp;
      <font color="redblue">e.g. smith@hotmail.com</font><br/>br/>
  Password(minimum 6 characters)<font color="red">* </font> &nbsp;&nbsp;&nbsp;
      <input type='password' id='pass'><br/><br/>
  Address<font color="red">* </font> &nbsp;&nbsp;&nbsp;
      <textarea rows="2" cols="20" id='addr' /></textarea> <br /> <br/>
  Mobile No<font color="red">* </font> &nbsp;&nbsp;&nbsp;
      <input type='text' id='mobileno' /><br />
  Gender: <input type='radio' name="gender">male
<input type='radio' name="gender">female<br/>br/><br /> <input</pre>
type='Submit' value='submit' /> <input type='Reset' value='reset'
/>
</form>
  </body></HTML>
```



CONCLUSION: thus successfully completed javascript validation

EXPERIMENT NO - 10:

Develop and demonstrate the usage of inline, internal and external style sheet using CSS.

Aim: Design a web page using CSS which includes the following:

- 1) Use different font styles
- 2) Control the repetition of image with background-repeat and no-repeat property
- 3) Define style for links as a: link, a: active, a: hover, a: visited
- 4) Add customized cursors for links.

Cascading Style Sheets (CSS) is used to format the layout of a webpage.

With CSS, you can control the color, font, the size of text, the spacing between elements, how elements are positioned and laid out, what background images or background colors are to be used, different displays for different devices and screen sizes, and much more!

Tip: The word **cascading** means that a style applied to a parent element will also apply to all children elements within the parent. So, if you set the color of the body text to "blue", all headings, paragraphs, and other text elements within the body will also get the same color (unless you specify something else)!

Using CSS

CSS can be added to HTML documents in 3 ways:

- Inline by using the style attribute inside HTML elements
- Internal by using a <style> element in the <head> section
- External by using a <link> element to link to an external CSS file

The most common way to add CSS, is to keep the styles in external CSS files. However, in this tutorial we will use inline and internal styles, because this is easier to demonstrate, and easier for you to try it yourself.QQV

Inline CSS

An inline CSS is used to apply a unique style to a single HTML element.

An inline CSS uses the style attribute of an HTML element.

The following example sets the text color of the https://example.com/html/
https://example.com/html/
html/
h

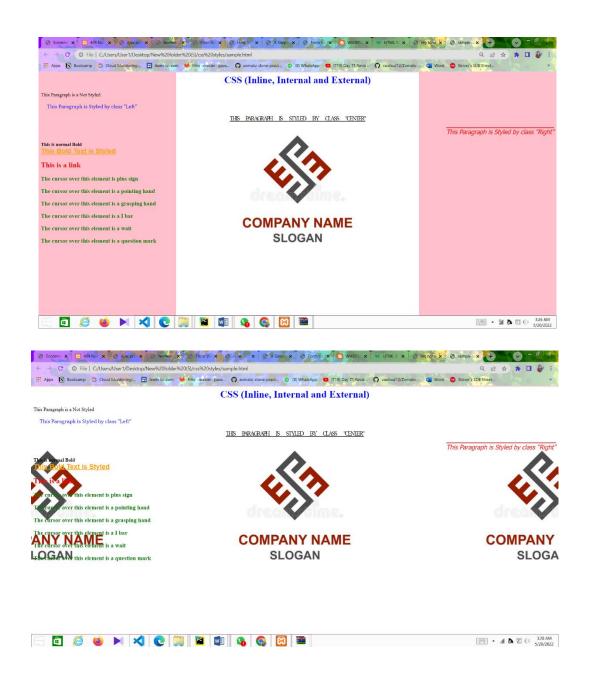
PROGRAM:

```
<html>
<head>
<style type="text/css">
body
```

```
{
background-image:url('img1.jpg');
background-repeat:repeat-x;
/*non-repeat*/
background-position:center center;
background-attachment:fixed;
background-color:pink;
}
a:link { text-decoration:none;color:orange; }
a:visited { text-decoration:none;color:red; }
a:hover { text-decoration:underline;color:blue; }
a:active { text-decoration:underline;color:purple; }
h3 { color:green; }
.c1{cursor:crosshair}
.c2{cursor:pointer}
.c3{cursor:move}
.c4{cursor:text}
.c5{cursor:wait}
.c6{cursor:help}
</style>
<link rel="stylesheet" type="text/css" href="style.css"> </head>
<body bgcolor="cyan">
<h1 style="color:blue;text-align:center;"> CSS (Inline, Internal and External)
</h1>
This Paragraph is a Not Styled
```

```
This Paragraph is Styled by class "Left"
This Paragraph is Styled by class "Center" <p
class="right">This Paragraph is Styled by class "Right"
<br/>this is normal Bold</b> <br>
<br/>
<br/>
d="headline">This Bold Text is Styled </b>
<h2><b><a href=" ">This is a link</a></b></h2>
<h3 class="c1">The cursor over this element is plus sign</h3>
<h3 class="c2">The cursor over this element is a pointing hand</h3> <h3</pre>
class="c3">The cursor over this element is a grasping hand</h3> <h3</pre>
class="c4">The cursor over this element is a I bar</h3> <h3 class="c5">The
cursor over this element is a wait</h3>
<h3 class="c6">The cursor over this element is a question mark</h3> </html>
CSS
p.left
text-align:left;
color:blue;
font-family:Cambria;
font-size:large;
text-indent:20px;
}
p.center
{
text-align:center;
text-decoration:underline;
text-transform:uppercase;
```

```
letter-spacing:-3px;
word-spacing:20px;
font-size:larger;
}
p.right
{
text-align:right;
color:red;
font-family:Tahoma;
font-size:15pt;
text-decoration:overline;
font-style:italic;
}
b#headline
{
color:orange;
font-size:22px;
font-family:arial;
text-decoration:underline;
}
```



CONCLUSION: thus successfully implemented css style sheet progrm

EXPERIMENT NO- 11:

Develop and demonstrate JavaScript with POP-UP boxes and functions for the following problems:

a) Input: Click on Display Date button using onclick() function Output: Display date in the textbox

b) Input: A number n obtained using prompt Output: Factorial of n number using alert

c) Input: A number n obtained using **prompt**Output: A **multiplication table** of numbers from 1 to 10 of n using **alert**

d) Input: A number n obtained using **prompt** and add another number using **confirm** Output: **Sum** of the entire n numbers using **alert**

PROGRAM:

a.Input: Click on Display Date button using onclick() function
Output: Display date in the textbox

<!DOCTYPE html>
<html>

<br

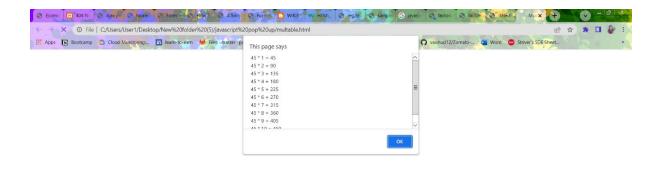
c) Input: A number n obtained using **prompt** Output: **Factorial** of n number using **alert**

```
<html>
<head>
<title>factorial</title>
```

```
<script language='javascript'>
function factorialcalc()
number = prompt("enter a number, i'll calculate its factorial", "whole numbers
bigger than zero, please")
factorial = 1
for (i=1; i <= number; i++)</pre>
factorial = factorial * i
alert("the factorial of " + number + " is " + factorial)
</script>
</head>
<body><form name=frm>
<input type=button value='factorial' onclick="factorialcalc();">
</form>
</body>
</html>
Comm 44No April 6 Marris 6 former 6 for
   ← → C ① File | C:/Users/User1/Desktop/W&IT/11/factorial.html
## Apps 🕟 Bootcamp 🖎 Cloud Monitoring... 🚍 leam-to-earn 🤟 Files -master -pava... 🞧 zomato-clone-pract... 🔘 (8) WhatsApp 🙍 (719) Day 71 Revie... 🥎 vaishud12/Zomato-...
 factorial
S Ecomm 🖂 404 No S Ajax pri S homen S Form V S How To S A Simo S Form V 🖸 WIKIBN W HTMLS S regular S sample G javascri S fact 🗴
                                                                                                                                                                                                                                  S factoria S date,ht: +
       C O File | C:/Users/User1/Desktop/W&IT/11/factorial.html
III Apps N Bootcamp Cloud Monitoring.... 🖬 learn-to-earn 🤟 Files master pa
                                                                                                                                                                                                  🕥 vaishud12/Zomato-... 👊 Word 👵 Striver's SDE Sheet...
                                                                                                           This page says
 factorial
                                                                                                             enter a number, i'll calculate its factorial
S Ecomm C 404 No S Ajax pin S homen S Form V S How To S A Simp S Form V S Form V S WIKIBS W HTMLS S regulation S sample G javascri S fact X
  factorial
                                                                                                             the factorial of 34 is 2.9523279903960412e+38
```

e) Input: A number n obtained using **prompt**Output: A **multiplication table** of numbers from 1 to 10 of n using **alert**

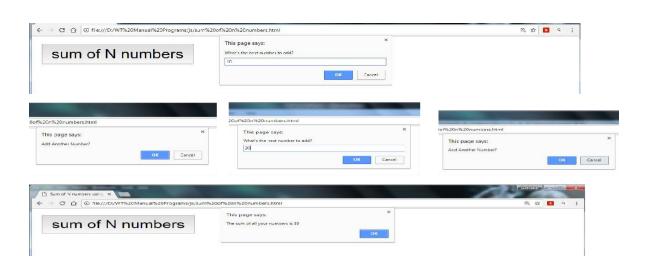
```
<html>
<head><title> Multiplication Table </title></head>
<body bgcolor="pink">
<script type="text/javascript">
var n=prompt("Enter positive value for n: "," "); if(!isNaN(n))
{
      var table="";
     var number="";
     for(i=1;i<=10;i++) {</pre>
           number = n * i;
           table += n + " * " + i + " = " + number + "\n";
      }
     alert(table);
}
else {
      alert("Enter positive value");
     n=prompt("Enter positive value for n: "," ");
}
document.write(n+" table values displayed using alert ..<br />");
</script> </body> </html>
S Ecomir 404 N: Alax p: S home S Form S How T A Asim; S Form N MIKIE: W HTML S reg.ht. S sample G Javasc
 ← → X © File | C:/Users/User1/Desktop/New%20folder%20(5)/javascript%20pop%20up/multable.html
## Apps N Bootcamp Cloud Monitoring... | learn-to-earn | Files master pt | This page says
                                                               OK Cancel
 ← → X ○ File | C;/Users/User1/Desktop/New%20folder%20(5)/javascript%20pop%20up/multable.html
## Apps N Bootcamp Cloud Monitoring. 🖬 learn-to-earn 💓 Files -master - pe
This page says
                                                                           🕥 vaishud12/Zomato-... 🧠 Word 💩 Striver's SDE Sheet...
                                                               OK Cancel
```





f) Input: A number n obtained using **prompt** and add another number using **confirm** Output: **Sum** of the entire n numbers using **alert**

```
<pr
```



CONCLUSION:

Thus successfully completed and implemented javascript pop ups

EXPERIMENT NO - 12:

Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next in the list. Add CSS to customize the properties of the font of the capital (color, bold and font size)

Programs

```
<html>
<head>
<body background
<title>Html web</title> </head>
<style>
body {
 background-image: url('R.jpg');
}
h1
{
color: red;
text-align: center;
}
.textbox1
color: blue;
font-size: 30px;
font-weight: bold;
}
</style>
<body>
<center>
<h1> Select the country name to find its capital</h1> <form name="myform">
Select Country <select name="country" id="sbox1" onClick="myFunction()"</pre>
required> <option value=""></option>
<option value="NEW DELHI">INDIA</option> <option</pre>
value="CANBERRA">AUSTRALIA/option value="WASHINGTON
D.C">AMERICA</option> <option value="LONDON">UNITEDKINGDOM</option> <option
value="BERLIN">GERMANY</option> </select><br><br>
<B>CAPITAL</B><input type="text" class="textbox1" id="sbox2"> </form>
```

```
</center>
<script>
function myFunction()
{var a=document.getElementById("sbox1").value;
document.getElementById("sbox2").value=a;}
</script> </body> </html>
                        elect the country name to find its capital
  elect the country name to find its capital
                              Select Country AMERICA
                          WASHINGTON D.C
```

Conclusion:

Thus successfully implemented html page for capital...

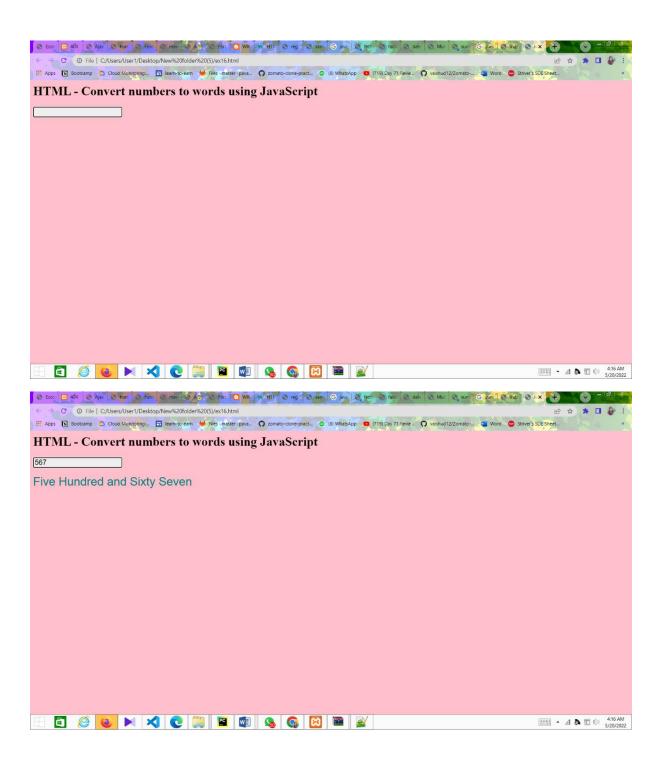
EXPERIMENT NO- 13:

Write an HTML page including any required JavaScript that takes a number from text field in the range of 0 to 999 and shows it in words. It should not accept four and above digits, alphabets and special characters.

Programs:

```
<html>
<head>
<body bgcolor="pink">
<title>HTML - Convert numbers to words using JavaScript</title> <SCRIPT
language=Javascript>
<script>
function NumToWord(inputNumber, outputControl)
var str = new String(inputNumber)
var splt = str.split("");
var rev = splt.reverse();
var once = ['Zero', 'One', 'Two', 'Three', 'Four', 'Five', 'Six', '
Seven', ' Eight', ' Nine'];
var twos = ['Ten', ' Eleven', ' Twelve', ' Thirteen', ' Fourteen', ' Fifteen',
'Sixteen', 'Seventeen', 'Eighteen', 'Nineteen'];
var tens = ['', 'Ten', ' Twenty', ' Thirty', ' Forty', ' Fifty', ' Sixty', '
Seventy', ' Eighty', ' Ninety'];
numLength = rev.length;
var word = new Array();
var j = 0;
for (i = 0; i < numLength; i++) {</pre>
switch (i) {
case 0:
if ((rev[i] == 0) || (rev[i + 1] == 1)) {
word[j] = '';
}
else {
word[j] = once[rev[i]];
word[j] = word[j];
break;
case 1:
aboveTens();
break;
case 2:
```

```
if (rev[i] == 0) {
word[j] = '';
else if ((rev[i - 1] == 0) || (rev[i - 2] == 0)) {
word[j] = once[rev[i]] + " Hundred ";
}
else {
word[j] = once[rev[i]] + " Hundred and";
break;
default: break;
}
j++;
function aboveTens() {
if (rev[i] == 0) { word[j] = ''; }
else if (rev[i] == 1) { word[j] = twos[rev[i - 1]]; } else { word[j] =
tens[rev[i]]; }
}
word.reverse();
var finalOutput = '';
for (i = 0; i < numLength; i++) {</pre>
finalOutput = finalOutput + word[i];
}
document.getElementById(outputControl).innerHTML = finalOutput;
}
</script>
</head>
<body>
<h1>HTML - Convert numbers to words using JavaScript</h1>
<input id="Text1" type="text" onkeypress="return isNumberKey(event)"</pre>
onkeyup="NumToWord(this.value,'divDisplayWords');" maxlength="3"
style="background-color: #efefef; border: 2px solid #CCCC; font-size: large"
/>
<br /> <br />
<div id="divDisplayWords" style="font-size: 30; color: Teal; font-family:</pre>
Arial;"> </div>
</body>
</html>
```



Conclusion:

Thus successfully implemented javascript converting numbers

EXPERIMENT NO - 14:

Develop and demonstrate PHP Script for the following problems:

- a) Write a PHP Script to find out the Sum of the Individual Digits.
- b) Write a PHP Script to check whether the given number is Palindrome or not
- a) Find out Sum of the individual Digits

```
<?php
$n=323;
$sum=0;
while($n>0)
{
$r=$n%10;
$sum+=$r;
$n=$n/10;
}
echo "sum of individual digits are: $sum";
?>
```



b) Check whether the given number is Palindrome or not

```
<?php
$n=323;
$t=$n;
$rev=0;
while(n>0)
$r=$n%10;
$rev=$rev*10+$r;
n=(int)(n/10);
}
echo "Reverse digits are: $rev <br>";
if(t==\$rev)
echo "$rev is a Palindrome";
else
echo "$rev is not a Palindrome";
?>
 E > C (i) treallocation/principlescoping/free (in the control party of t
    Reverse digits are: 323
323 is a Palindrome
```



Conclusion: thus successfully implemented php programs

EXPERIMENT NO - 15:

Create an XML document that contains 10 users information. Write a Java Program, which takes User Id as input and returns the user details by taking the user information from XML document using DOM parser or SAX parser.

AIM: Takes User Id as input and returns the user details using XML with DOM

PROGRAM:

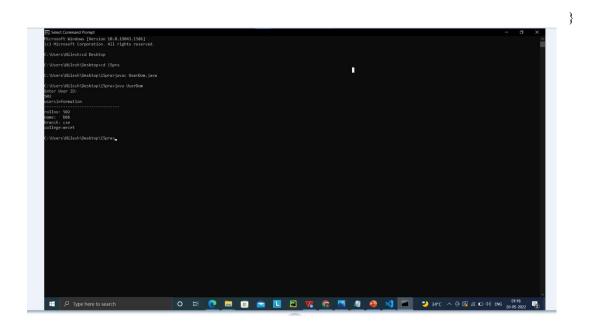
users.xml

```
<usersinformation>
  <user>
       <rollno>501</rollno>
       <name>aaa</name>
       <br/>branch>cse</branch>
       <college>mrcet</college>
  </user>
  <user>
       <rollno>502</rollno>
       <name>bbb</name>
       <br/>branch>cse</branch>
       <college>mrcet</college>
  </user>
  <user>
       <rollno>503</rollno>
       <name>ccc</name>
       <br/>
<br/>
branch>cse</branch>
       <college>mrcet</college>
  </user>
  <user>
```

```
<rollno>504</rollno>
     <name>ddd</name>
     <br/>branch>cse</branch>
     <college>mrcet</college>
</user>
<user>
     <rollno>505</rollno>
     <name>eee</name>
     <br/>branch>cse</branch>
     <college>mrcet</college>
</user>
<user>
     <rollno>506</rollno>
     <name>fff</name>
     <br/>branch>cse</branch>
     <college>mrcet</college>
</user>
<user>
     <\!\! rollno \!\!>\!\! 507 \!\!<\!\! /rollno \!\!>
     <name>ggg</name>
     <br/>branch>cse</branch>
     <college>mrcet</college>
</user>
<user>
     <rollno>508</rollno>
     <name>hhh</name>
     <br/>branch>cse</branch>
     <college>mrcet</college>
</user>
<user>
```

```
<rollno>509</rollno>
        <name>iii</name>
        <br/>branch>cse</branch>
        <college>mrcet</college>
   </user>
   <user>
        <rollno>510</rollno>
        <name>jjj</name>
        <br/>branch>cse</branch>
        <college>mrcet</college>
   </user>
</usersinformation>
UserDom.java
import java.io.File;
import javax.xml.parsers.*;
import org.w3c.dom.*;
import java.util.Scanner;
public class UserDom
public static void main(String args[]) throws Exception
DocumentBuilderFactory fac=DocumentBuilderFactory.newInstance(); DocumentBuilder
b=fac.newDocumentBuilder();
Document doc=b.parse(new File("users.xml"));
doc.getDocumentElement().normalize(); Element
root=doc.getDocumentElement(); Scanner in=new
Scanner(System.in); System.out.println("Enter User ID:");
int n=in.nextInt();
int flag=0;
```

```
NodeList nl=doc.getElementsByTagName("user"); for(int
i=0;i\leq nl.getLength();i++) {
Node node=nl.item(i);
if(node.getNodeType()==Node.ELEMENT NODE)
{
Element e=(Element)node;
int
x=Integer.parseInt(e.getElementsByTagName("rollno").item(0).getTextContent());
if(x==n)
   System.out.println(root.getNodeName());
   System.out.println("-----");
                System.out.println("rollno:\t"+e.getElementsByTagName("rollno").item(0).getTextContent());
                 System.out.println("name:\t"+e.getElementsByTagName("name").item(0).getTextContent());
              System.out.println("branch:\t"+e.getElementsByTagName("branch").item(0).getTextContent());
               System.out.println("college:"+e.getElementsByTagName("college").item(0).getTextContent());
   flag=1;
   break;
   else
   flag=0;
   if(flag==0)
   System.out.println("User not available");
```



Conclusion:

Thus successfully implemented java xml dom program

EXPERIMENT NO- 16:

Modify the above PHP program to use an xml instead of database AIM: To design an application that verifies user details from an xml using PHP. **PROGRAM:** db.php Userlogin.xml: <Authentication> <user> <username>cse</username> <password>5</password> </user> <user> <username>mrcet</username> <password>mlrd</password> </user> </Authentication> Loginform.php: <html> <head>

<title> Registration page </title>

</head>

<body bgcolor="pink">

```
<?php
   $myxml=simplexml_load_file("Userlogin.xml");
   $username=$_POST['uname'];
   password = POST['upwd'];
    $xmlusername="";
   $xmlpassword="";
   for($i=0;$i<count($myxml);$i++)
    {
   $xmlusername=$myxml->user[$i]->username;
   $xmlpassword=$myxml->user[$i]->password;
   if($xmlusername==$username && $xmlpassword==$password)
    {
   echo "welcome $username";
   die();
   echo "Invalid username or password";
?>
</body>
</html>
Loginform1.html:
<html>
 <head> <title> Login Page </title> </head>
<body bgcolor="bisque">
<center>
<h1> Login Page </h1>
```

```
<form action="Loginform.php" method="post">
  <label> Name: </label> 
<input type="text" name="uname" /> 
  <label> Password: </label> 
<input type="password" name="upwd" /> 
  <input type="submit" value="submit" />
<input type="reset" value="reset" /> 
</form>
                   </center>
                               </body>
                                           </html>
                             Login Page
                          Name:
                                 mrcet
                          Password: ••••
                          submit reset
      welcome mrcet
                             Login Page
                           Name:
                           Password:
                           submit reset
                                            9 th Q
      Invalid username or password
```

Conclusion: thus successfully implemented user authentication php