Ex No 2   WEB PAGE DESIGN

Date :

Aim:

      To write html and css code for designing a web page and apply styling to it.

Program:

Page_1.html

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <style>

 .heading1 {

    font-size: 30px;

  background-color:#9df9ef;

  border-radius:10px;

  padding:5px;

  position: relative;


}

table, th, td {

  border: 1px solid black;

  border-collapse: collapse;

  border-spacing: 40px;

}

    </style>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Exp2</title>

</head>

<body>

    <center>

        <div class="heading1">

    <h1 >HTML</h1>

    </div>

</center>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">INTRODUCTION</h2>

<pre >

->HTML stands for Hyper Text Markup Language

->HTML is the standard markup language for creating Web pages

->HTML describes the structure of a Web page

->HTML consists of a series of elements

->HTML elements tell the browser how to display the content

->HTML elements label pieces of content such as "this is a heading", "this is a
paragraph", "this is a link", etc.

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">Tags and elements</h2>

<pre>

-> An HTML element is defined by a start tag, some content, and an end tag.

</pre>

<center>

<table >

    <tr >

        <th style="background-color: aqua;">ELEMENTS</th>
```

```html
        <th style="background-color: aqua;">DESCRIPITION</th>

    </tr>

    <tr>

        <td>html</td>

        <td>Defines the root of an HTML document</td>

    </tr>

    <tr>

        <td>body</td>

        <td>Defines the document's body</td>

    </tr>

    <tr>

        <td>h1 to h6</td>

        <td>Defines HTML headings</td>

    </tr>


</table>

</center>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">Anotomy of HTML</h2>

<pre>

-> Anatomy of an HTML element


    The main parts of our element are as follows: The opening tag: This consists of

    the name of the element (in this case, p), wrapped in opening and closing

    angle brackets. This states where the element begins or starts to take effect —

    in this case where the paragraph begins.

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">HTML HEADINGS</h2>

<pre>
```

->HTML headings are defined with the "h1" to "h6" tags.

   Use "<" and ">" these two symbols before and after tags

 "h1" defines the most important heading. "h6" defines the least important heading.

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">Lists and Tables</h2>

<pre>

->A table in HTML consists of table cells inside rows and columns.

   Each table cell is defined by a "td" and a "/td" tag.

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">VIDEO TUTORIALS</h2>

<iframe width="560" height="315" src="https://www.youtube.com/embed/qz0aGYrrlhU" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

</body>

</html>

Exp2_css.html

<!DOCTYPE html>

<html lang="en">

<head>

    <style>

       .heading1 {

         font-size: 30px;

```
            background-color:#9df9ef;

            border-radius:10px;

            padding:5px;

            position: relative;


        }

        table, th, td {

            border: 1px solid black;

            border-collapse: collapse;

            border-spacing: 40px;

        }

            </style>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <center>

        <div class="heading1">

    <h1 >CSS</h1>

    </div>

    </center>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">CSS Basics</h2>

<pre>

->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

->External stylesheets are stored in CSS files

`</pre>`

`<h2 style`="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">CSS Box Model`</h2>`

`<pre>`

The CSS Box Model:

    In CSS, the term "box model" is used when talking about design and layout.

    The CSS box model is essentially a box that wraps around every HTML element.

    It consists of: margins, borders, padding, and the actual content.

Explanation of the different parts:

    Content - The content of the box, where text and images appear

    Padding - Clears an area around the content. The padding is transparent

    Border - A border that goes around the padding and content

    Margin - Clears an area outside the border. The margin is transparent

`</pre>`

`<h2 style`="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">Responsive design`</h2>`

`<pre><center>`

                                `<h2>`SIMPLE INTODUCTION ABOUT RESPONSIVE WEB
DESIGN`</h2>`

                                `</center>`

Responsive web design makes your web page look good on all devices.

Responsive web design uses only HTML and CSS.

Responsive web design is not a program or a JavaScript.

`</pre>`

```html
<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">Container and Grid layout</h2>

<pre>

Grid Container:

    ->To make an HTML element behave as a grid container, you have to set the display
property to grid or

    inline-grid.

    ->Grid containers consist of grid items, placed inside columns and rows.

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">Introduction to Bootstrap</h2>

<pre><center>

    <h2>What is Bootstrap</h2>

</center>

    Bootstrap is a free front-end framework for faster and easier web development

    Bootstrap includes HTML and CSS based design templates for typography, forms, buttons,
tables, navigation, modals, image carousels and many other, as well as optional
JavaScript plugins

    Bootstrap also gives you the ability to easily create responsive designs

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">CSS Tutorial:</h2>

<iframe width="560" height="315" src="https://www.youtube.com/embed/yfoY53QXEnI"
title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-
write; encrypted-media; gyroscope; picture-in-picture; web-share"
allowfullscreen></iframe>

</body>

</html>
```

Exp2_jc.html

```html
<!DOCTYPE html>

<html lang="en">
```

```html
<head>
    <style>
        .heading3 {
            font-size: 30px;
            background-color:#9df9ef;
            border-radius:10px;
            padding:5px;
            position: relative;


        }
        table, th, td {
            border: 1px solid black;
            border-collapse: collapse;
            border-spacing: 40px;
        }
            </style>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <center>
        <div class="heading3">
    <h1 >JavaScript</h1>
    </div>
    </center>
```

```html
    <h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding:
20px;position: relative;">Introduction</h2>

<pre><center>

   <h2> What is JavaScript</h2>

</center>

JavaScript is a cross-platform, object-oriented scripting

language used to make webpages interactive (e.g., having complex

animations, clickable buttons, popup menus, etc.). There are also more advanced

server side versions of JavaScript such as Node

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">Variables and Scopes</h2>

<pre><center>

   <h2>  4 Ways to Declare a JavaScript Variable</h2>

</center>

<h3>

Using var

Using let

Using const

Using nothing

</h3><center><h2>

Scope determines the accessibility (visibility) of variables.

</h2></center><h3>

JavaScript has 3 types of scope:

</h3>

Block scope

Function scope

Global scope

</pre>
```

```html
<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">JavaScript data types</h2>

<pre><center><h2>

    JavaScript has 8 Datatypes

</h2></center>

1. String

2. Number

3. Bigint

4. Boolean

5. Undefined

6. Null

7. Symbol

8. Object

    <center><h2>

    The Object Datatype

</h2></center>

The object data type can contain:


1. An object

2. An array

3. A date

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">Constructor and prototype</h2>

<pre>

<center><h2>

    Constructor

</h2></center>

Constructors are functions that are used to create an object. When you call
```

a constructor function with the new keyword, it will create a new object and return it.

If you're coming from an OOP background, it's easiest to compare constructor

functions to classes. Just like in other languages, constructors allow you to create

new objects and define their properties and methods.

<center><h2>

    Prototype

</h2></center>

In JavaScript, functions are also JS objects themselves, and they have a property

called prototype.

The purpose of the prototype is to share properties and methods between objects

that are created from the constructor function.

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">Arrays and Closures</h2>

<pre>

    <center><h2>Closures</h2></center>

A closure is the combination of a function bundled together (enclosed) with references

to its surrounding state (the lexical environment). In other words, a closure gives you

access to an outer function's scope from an inner function

<center><h2>Arrays</h2></center>

Arrays are used to store multiple values in a single variable. This is compared to a

variable that can store only one value. Each item in an array has a number attached to it,

called a numeric index, that allows you to access it. In JavaScript, arrays start at
index zero

and can be manipulated with various methods

</pre>

<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position: relative;">Frameworks in JS</h2>

```
<pre>

    <center><h2>Frameworks use in JC</h2></center>

JavaScript frameworks are an essential part of modern front-end web development,

providing developers with tried and tested tools for building scalable, interactive web

applications.

</pre>


<h2 style="background-color: #f99d9d;color:black;border-radius:8px;padding: 20px;position:
relative;">JS Tutorial</h2>

<iframe width="560" height="315" src="https://www.youtube.com/embed/PkZNo7MFNFg"
title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-
write; encrypted-media; gyroscope; picture-in-picture; web-share"
allowfullscreen></iframe>




</body>

</html>
```

Page_1.html

```
<!DOCTYPE html>

<html>

    <head>

        <title>Home</title>

        <meta charset="UTF-8">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <style>

            body{

                background-image:linear-gradient(to right,#c2e59c, #64b3f4)

            }
```

```css
.pagetitle{

    font-size: 40px;

}

.name{

    position: relative;

    left: 13px;

}

.dob{

    position: relative;

    right: 55px;

}

.dobip{

    position: relative;

    right: 42px;

}

.pw{

    position: relative;

    right:14px;

}

.mailip{

    position: relative;

    left:12px;

}

.gender{

    position:relative;

    left:5px;

}

.male{
```

```css
        position: relative;

        left:10px;

    }

    .malelab{

        position: relative;

        left:10px;

    }


    .female{

        position: relative;

        left:10px;

    }

      .femalelab{

        position: relative;

        left:10px;

    }

    .others{

        position: relative;

        left:10px;

    }

    .otherlab{

        position: relative;

        left:10px;

    }

    .tel{

            position: relative;

        right:32px;

    }
```

```css
.telip{
        position: relative;
    right:20px;
}
.address{
    position:relative;
    bottom:55px;
    right:10px;
}
.signup{
    background-color: #9DF9EF;
    width: 200px;
    text-align: center;
    border:2px solid black;
    border-radius: 15px;
    height:40px;
}
.box{
background-color:    #e1b382;
padding: 20px;
width:400px;
border: 2px solid black;
border-radius: 20px;
}
.submit{
    background-color: #1dbab4;
    cursor: pointer;
}
```

```html
        .entire{

            margin: 50px;


        }

        </style>

    </head>

    <body>

        <div>

        <div class="entire">

            <center><h1 class="pagetitle"> Front-end Learning</h1></center><br>

            <center>

            <h1 class="signup">Sign Up</h1>

            </center>

            <br>

            <center>

            <div class="box">

                <form target="__blank" action="page_2.html">

                <label for="Name">Name</label>

                <input type="text" name="Name" class="name" placeholder="Enter name">


            <br>

            <br>


            <label for="password" class="pw">

                Password

            </label>

            <input name="password" type="password" placeholder="Enter password">

            <br>
```

```html
<br>

<label name="dob" class="dob">Date of Birth</label>

<input name="dob" type="date" class="dobip">

<br>

<br>

<label for="mail" class="mail">Email</label>

<input name="mail" class="mailip" type="email" placeholder="Enter email">

<br>

<br>

<label for="gender" class="gender" >Gender</label>

<input name="gender" class="male" type="radio"><label
class="malelab">Male</label>

<input name="gender" class="female" type="radio"><label
class="femalelab">Female</label>

                <input name="gender" class="others" type="radio"><label
class="otherlab">Others</label>

<br>

<br>

<label for="tel" class="tel">Mobile Number</label>

<input name="tel" class="telip" type="tel" placeholder="Enter Mobile Number">

<br>

<br>

<label  class="address">Address</label>

<textarea name="address" class="addressip" rows="4" cols="20"></textarea>

<br>

<br>

<input type="submit" class="submit" value="Submit">

</form>

</div></center>
```

```html
        </div>

        </div>

    </body>

</html>


Page_2.html

<!DOCTYPE html>

<html>

    <head>

        <title>Exp2</title>

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

        <meta charset="UTF-8">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

    </head>

    <body>

    <div class="topnav">

        <a class="active" href="#home">Home</a>

        <a href="#Search">News</a>

        <a href="#Contact">Contact</a>

        <a href="#about">About</a>

        <a href="account">Account</a>

        <input type="text" placeholder="search..">

    </div>

    <img src="htmllogo.jpg" class="html" alt="html"><img src="csslogo.jpg" class="css"
alt="css"><img src="jslogo.jpg" class="js" alt="jss"> <center><h1>Welcome to Front-end
learning</h1></center>

    <div class="row">

        <div class="col-lg-4 col-md-6"><p class="box"><a href="page_3.html"
class="heading-1" target="_blank">HTML</a><br><br><a href="">Introduction</a><br><a
href="">Tags and elements</a><br><a href="">Anotomy of HTML</a><br><a href="">Heading and
```

```
paragraph</a><br><a href="">Lists and Tables</a><br><a href="">Links and Forms</a><br><a
href="">Images and Videos</a></p></div>

        <div class="col-lg-4 col-md-6"><p class="box"><a href="page_3II.html"
class="heading-2" target="_blank" >CSS</a><br><br><a href="">CSS Basics</a><br><a
href="">Box Model Layout</a><a href=""></a><br><a href="">Responsive design</a><br><a
href="">Container and Grid layout</a><br><a href="">Introduction to  Bootstrap</a><br><a
href="">Twitter Bootstrap</a><br><a href="">Bootstrap Grid system</a></p></div>

        <div class="col-lg-4 col-md-12"><p class="box"><a href="page_3III.html"
class="heading-3" target="_blank">Java Script</a><br><br><a
href="">Introduction</a><br><a href=""> Variables,Function and Scopes</a><a
href=""></a><br><a href="">JavaScript types</a><br><a href="">Handling default</a><br><a
href="">Constructor and prototype</a><br><a href="">Arrays and Closures</a><br><a
href="">Frameworks in JS</a></p></div>

    </div><hr>

    <div class="enroll"><h2>Kickstart your career</h2><p class="proll">By completing a
course</p><a href="https://www.coursera.org/" class="enroll-button" target="_blank">Get
started</a></div>

    <div class="templates"><h2 class="ptem">Web Templates<br>Browse responsive HTML
Templates</h2><a href="https://getbootstrap.com/" class="browse-button"
target="_blank">Browse now</a></div>

    </body>

</html>
```
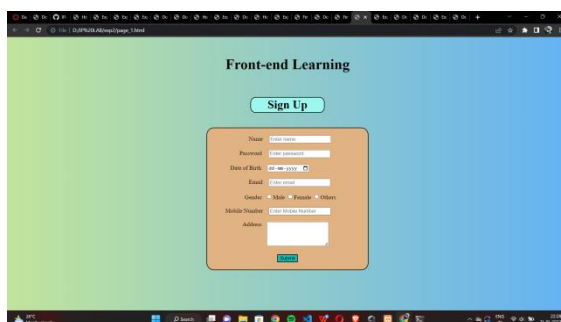
Output:

Observation(20)	
Record(5)	
Total(25)	
Initial	

Result:

   Thus,the html and css code is written and executed for designing a web page and the output is verified.