**1) Create web pages using Basic HTML Tags, Table, List, Image, and Frame Tags.**

**Aim:**

To create web pages using basic html tags , tables, list , images and frame tags.

**Programs:**

**Tables in HTML:**

**Program:**

<html>

<head>

<title>Frames in HTML</title>

</head>

<frameset rows="15%,75%,10%" noresize="noresize">

<frame src="topframe.html"/>

<frameset cols="20%,\*" noresize="noresize">

<frame src="leftframe.html"/>

<frame src="rightframe.html" name="Right Frame"/>

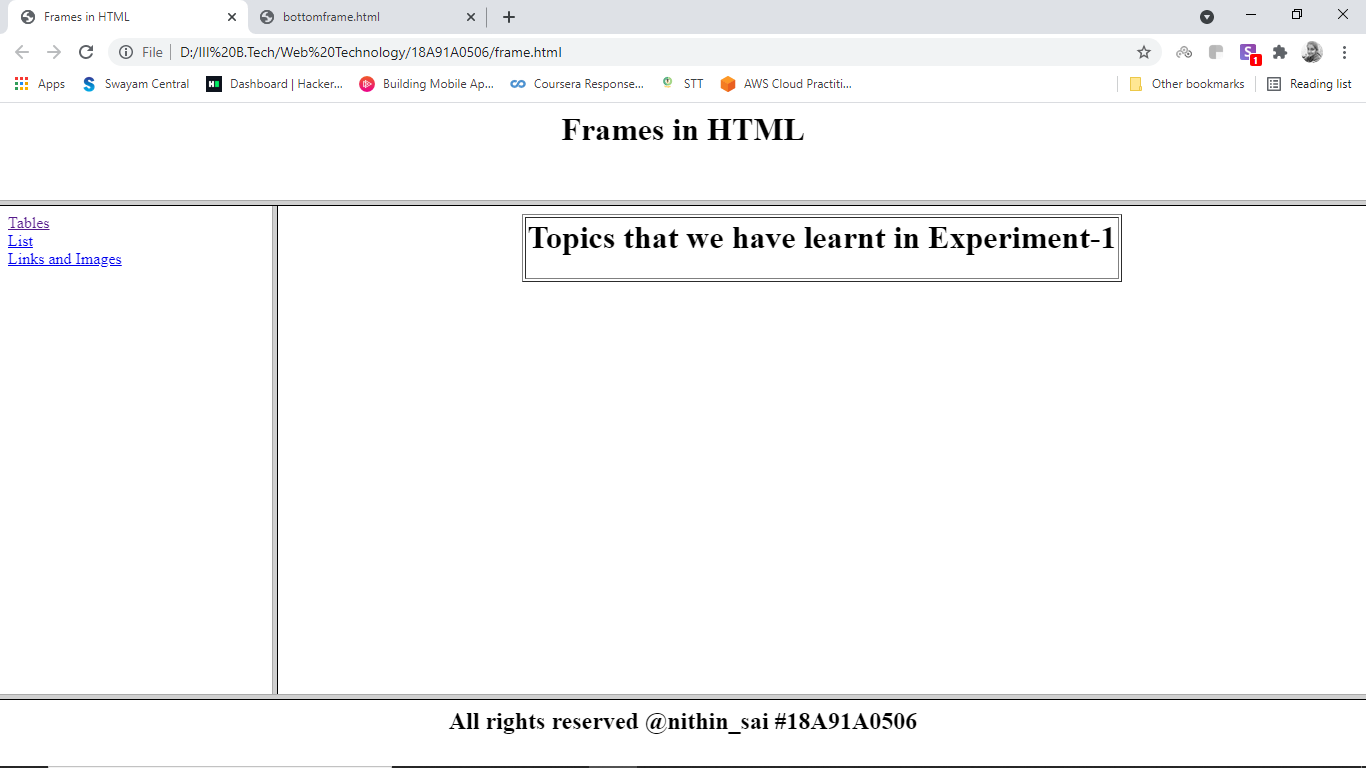
</frameset>

<frame src="bottomframe.html"/>

</frameset>

</html>

**Output:**



**Top frame :**

<html>

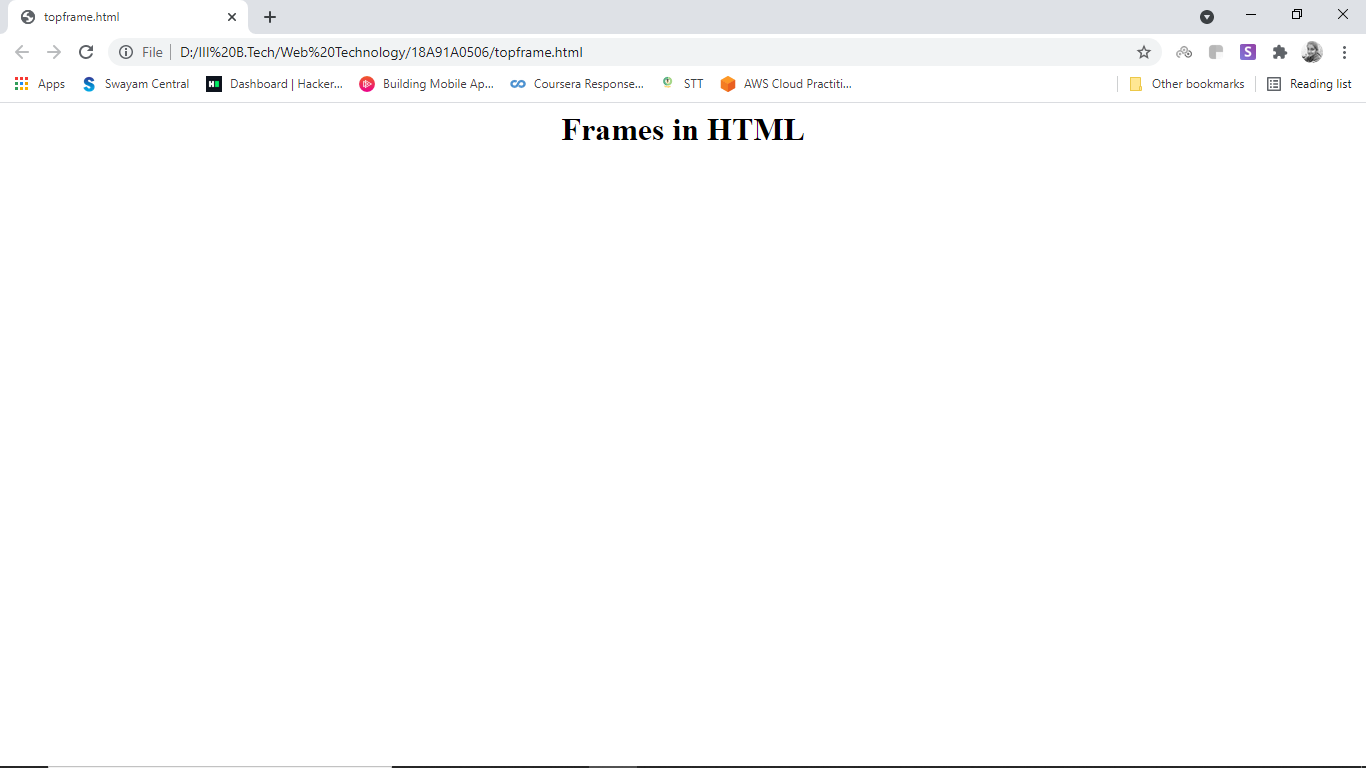
<body>

<h1 align="center">Frames in HTML</h1>

</body>

</html>

**Output:**



**Left Frame:**

<html>

<body>

<a href="table.html" target="Right Frame">Tables</a></br>

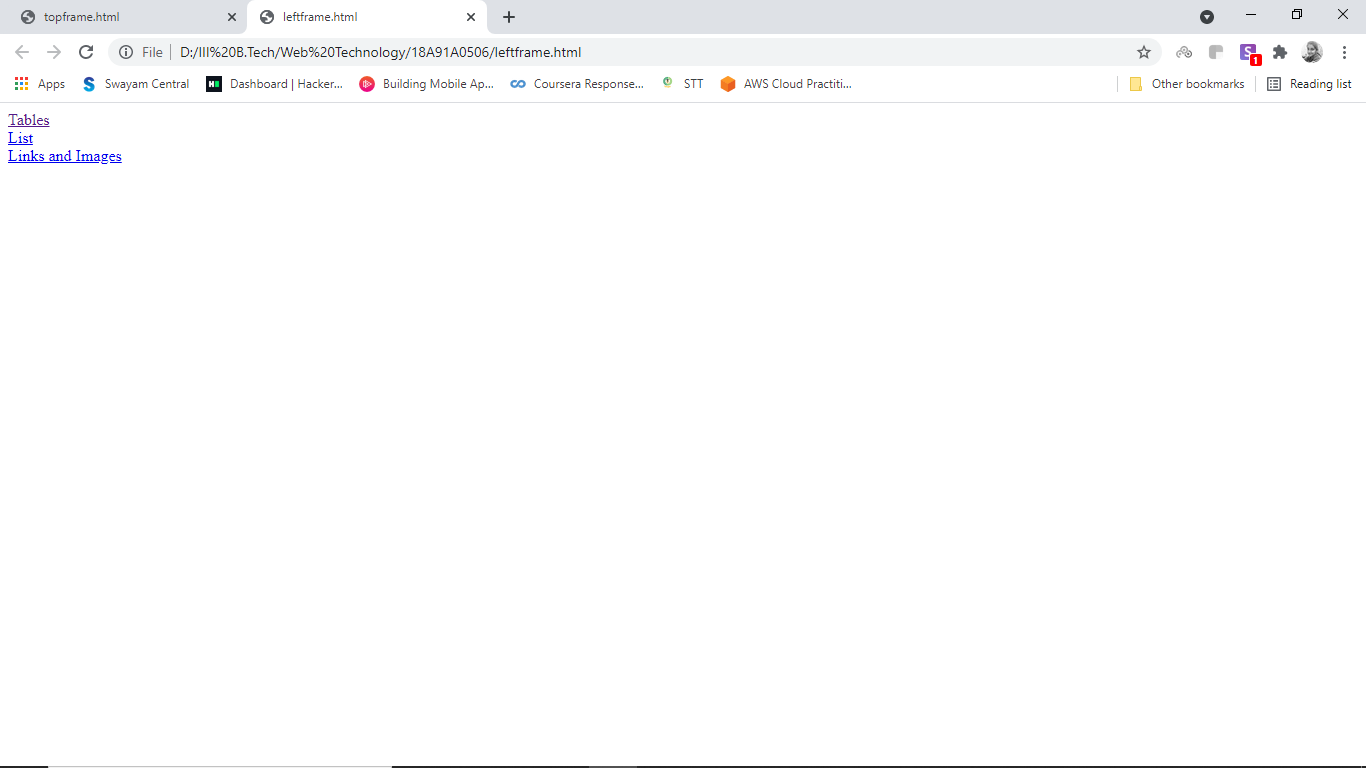
<a href="list.html" target="Right Frame">List</a></br>

<a href="image.html" target="Right Frame">Links and Images</a></br>

</body>

</html>

**Output:**



**Tables in HTML:**

**Program:**

<html>

    <head>

        <title>Tables</title>

    </head>

    <body bgcolor="lightblue">

        <center>

            <h1>Time Table</h1>

            <table border="1">

                <tr>

                    <th>Day</th>

                    <th>9:30 - 10:20</th>

                    <th>10:20 - 11:10</th>

                    <th>11:10 - 12:00</th>

                    <th>12:00 - 12:50</th>

                </tr>

                <tr>

                    <td>Monday</td>

                    <td>DWDM</td>

                    <td>WT</td>

                    <td>E.COM</td>

                    <td>HCI</td>

                </tr>

                <tr>

                    <td>Tuesday</td>

                    <td>CN</td>

                    <td>E.COM</td>

                    <td>WT</td>

                    <td>CN</td>

                </tr>

                <tr>

                    <td>Wednesday</td>

                    <td>CN</td>

                    <td>E.COM</td>

                    <td>WT</td>

                    <td>DWDM</td>

                </tr>

                <tr>

                    <td>Thursday</td>

                    <td>DWDM</td>

                    <td>HCI</td>

                    <td>E.COM</td>

                    <td>HCI</td>

                </tr>

                <tr>

                    <td>Friday</td>

                    <td>CN</td>

                    <td>DWDM</td>

                    <td>CN</td>

                    <td>HCI</td>

                </tr>

                <tr>

                    <td>Saturday</td>

                    <td>WT</td>

                    <td>E.COM</td>

                    <td>DWDM</td>

                    <td>WT</td>

                </tr>

            </table>

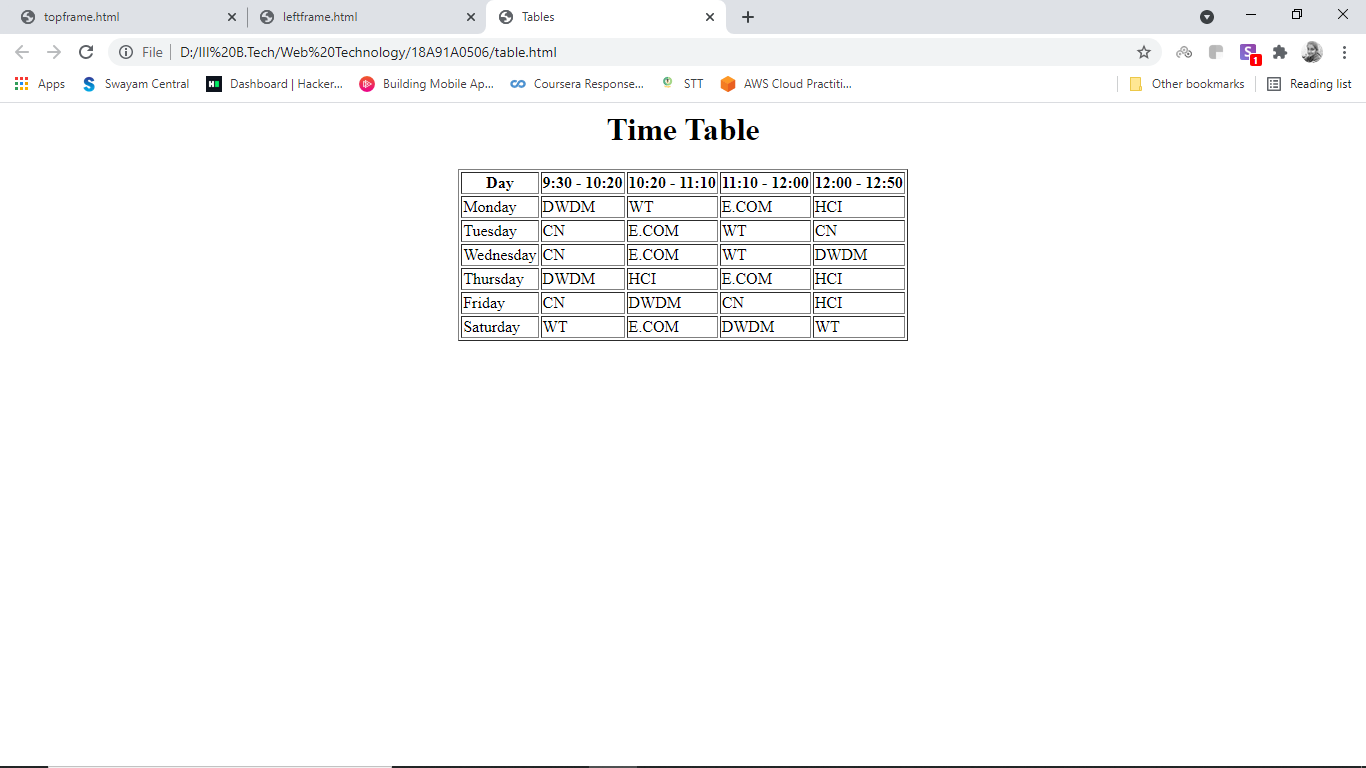
            <a href="file:///D:/Eswari/Academics/3-2/WT/lab/main.html">Return</a>

        </center>

    </body>

</html>

**Output:**



**Lists:**

**Program:**

<html>

<head>

<title>Lists in HTML</title>

</head>

<body>

<h1>List concept:</h1>

<h2><i>Unordered lists:</i></h2>

<ul>

<li>rice</li>

<li>wheat</li>

<li>paddy</li>

</ul>

<hr/>

<h2><i>Ordered lists:</i></h2>

<ol>

<li>rice</li>

<li>wheat</li>

<li>paddy</li>

</ol>

<hr/>

<h2><i>Nested lists:</i></h2>

<ol>

<li>Grains

<ul>

<li>rice</li>

<li>wheat</li>

<li>paddy</li>

</ul>

</li>

<li>Fast foods

<ul>

<li>pizza</li>

<li>burger</li>

<li>noodles</li>

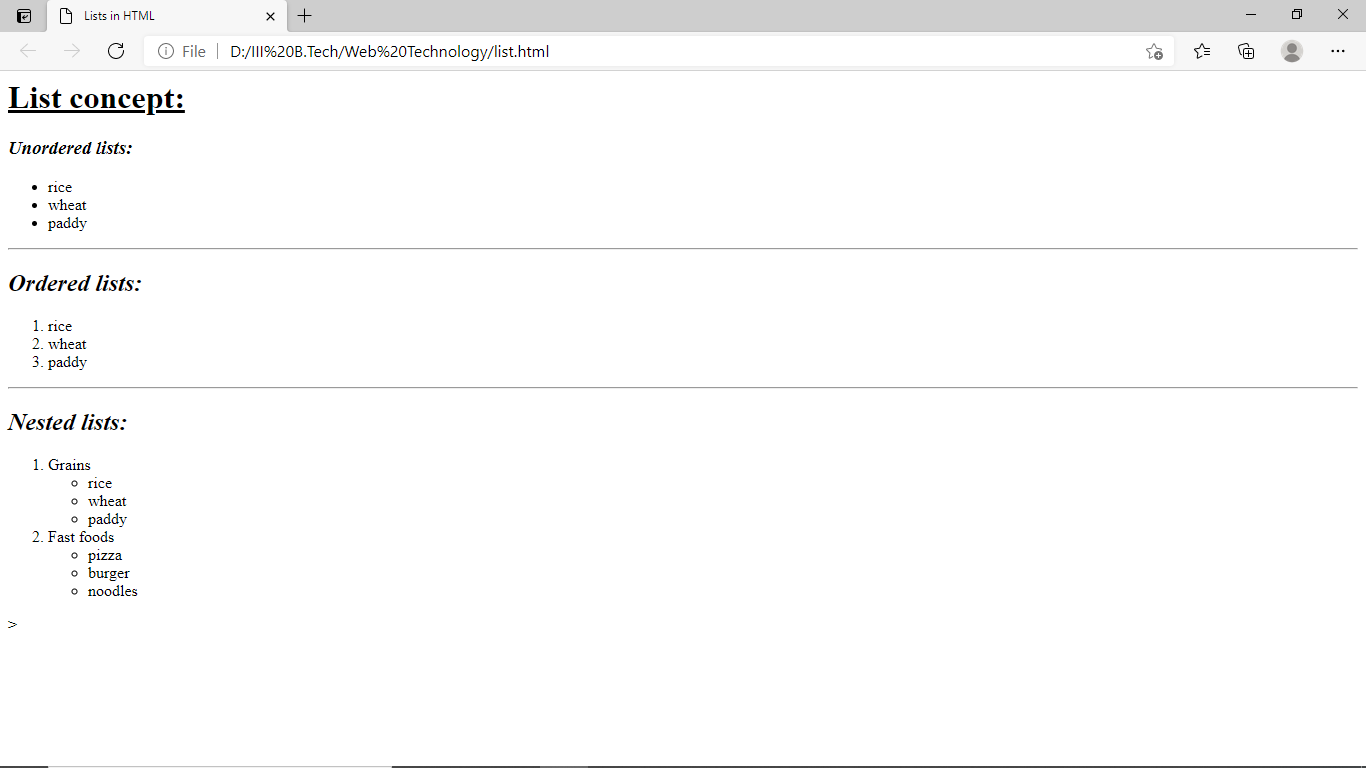
</ul>

</ol>

</body>

</html>

**Output:**



**Images and Links:**

**Program:**

<html>

<head>

<title>Concept of Links And Images in HTML</title>

</head>

<body>

<center>

<h4><u>Sample Text for Links And Image</u></h4>

<a href="https://www.proflowers.com/blog/types-of-flowers">Types of Flowers:</a><br/><br/>

<a href="https://www.britannica.com/science/flower"><img src="image.jpeg" alt="It's supposed to be a flower!!!" width="400" height="400"></a>

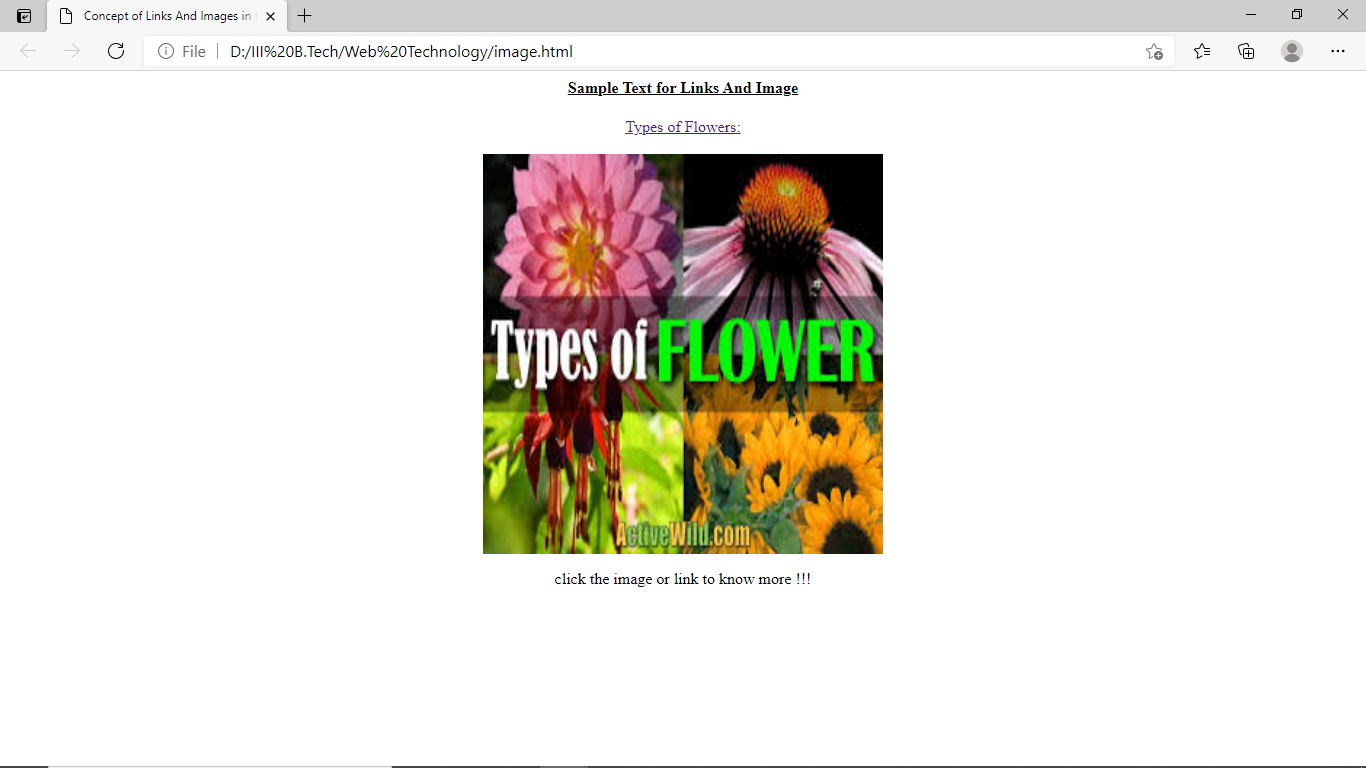
<p>click the image or link to know more !!!</p>

<center>

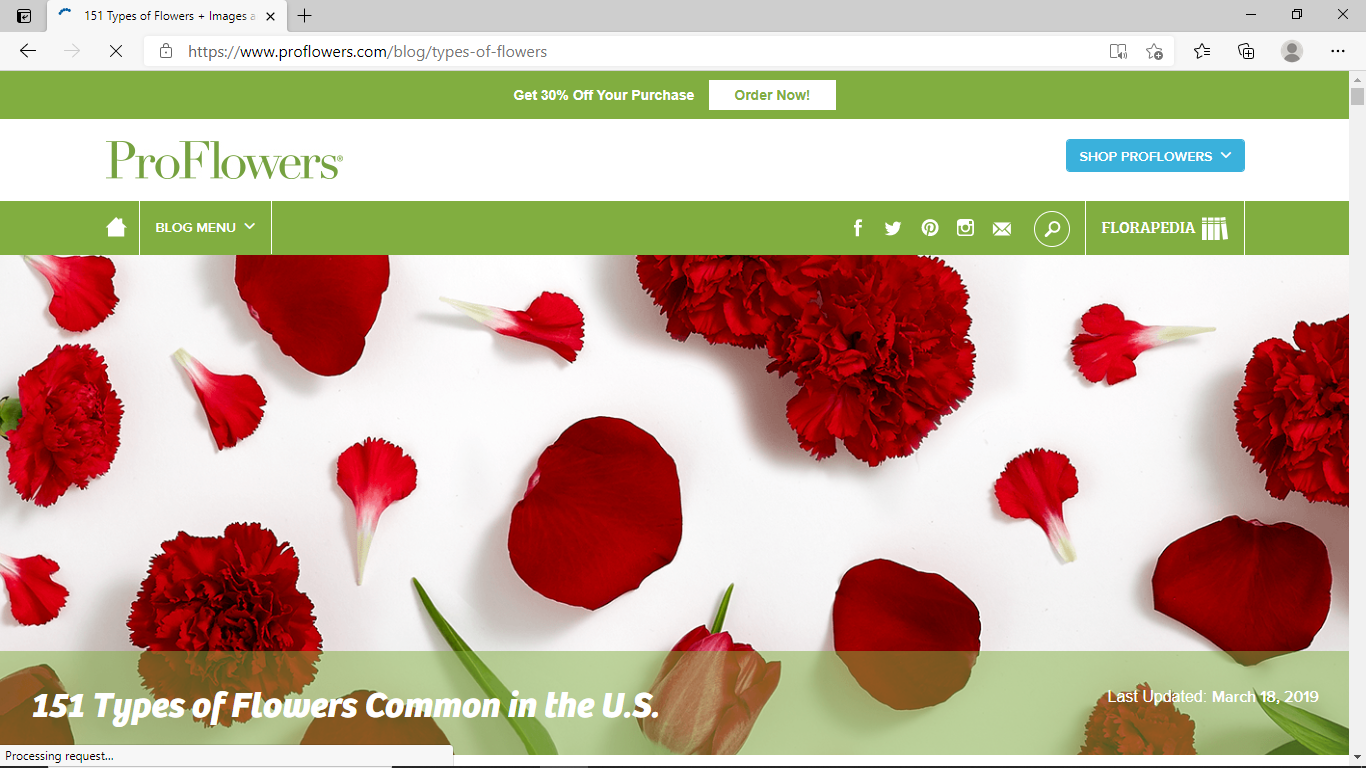
</body>

</html>

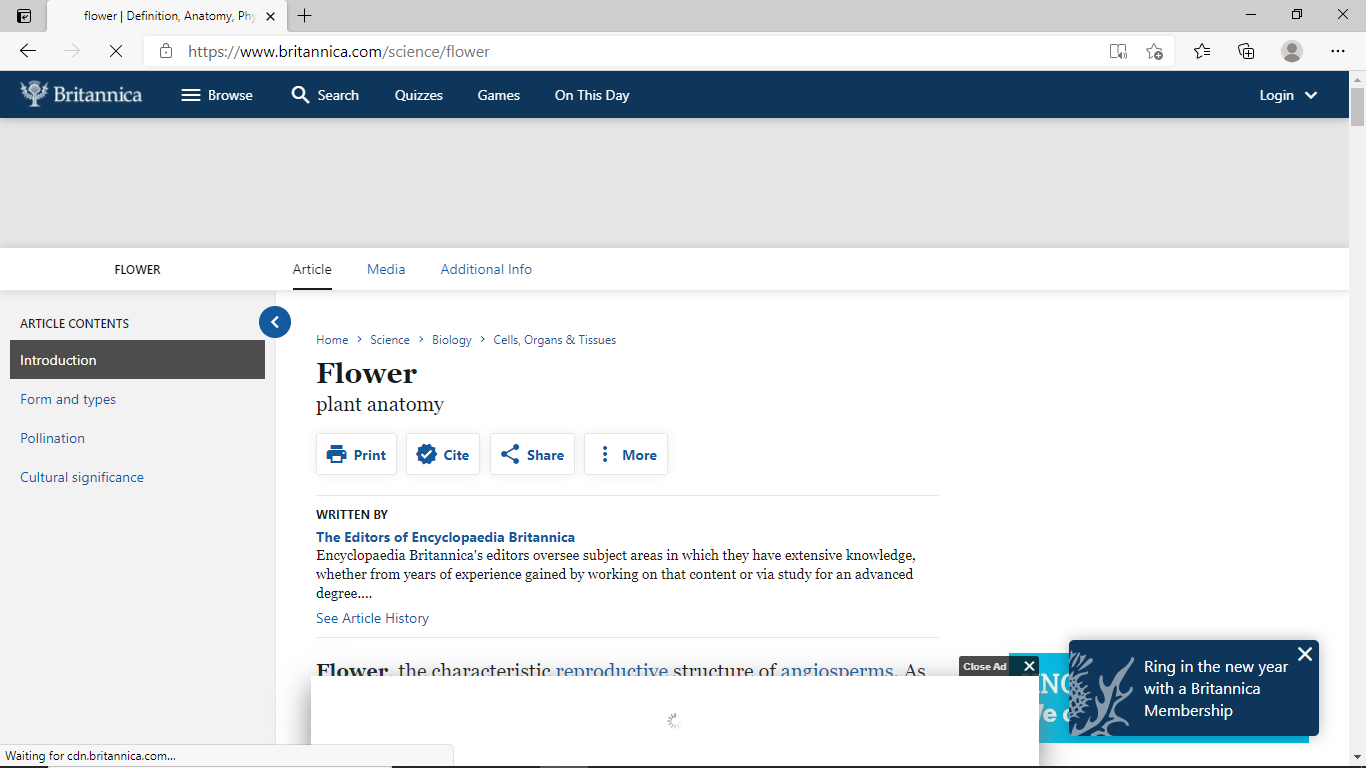
**Output:**



**On clicking on Types of Flowers:**



**on clicking on the image in fig 1:**



**Right Frame:**

<html>

<body>

<center>

<table border=1>

<tr>

<td align="center"><h1>Topics that we have learnt in Experiment-1</h1></td>

</tr>

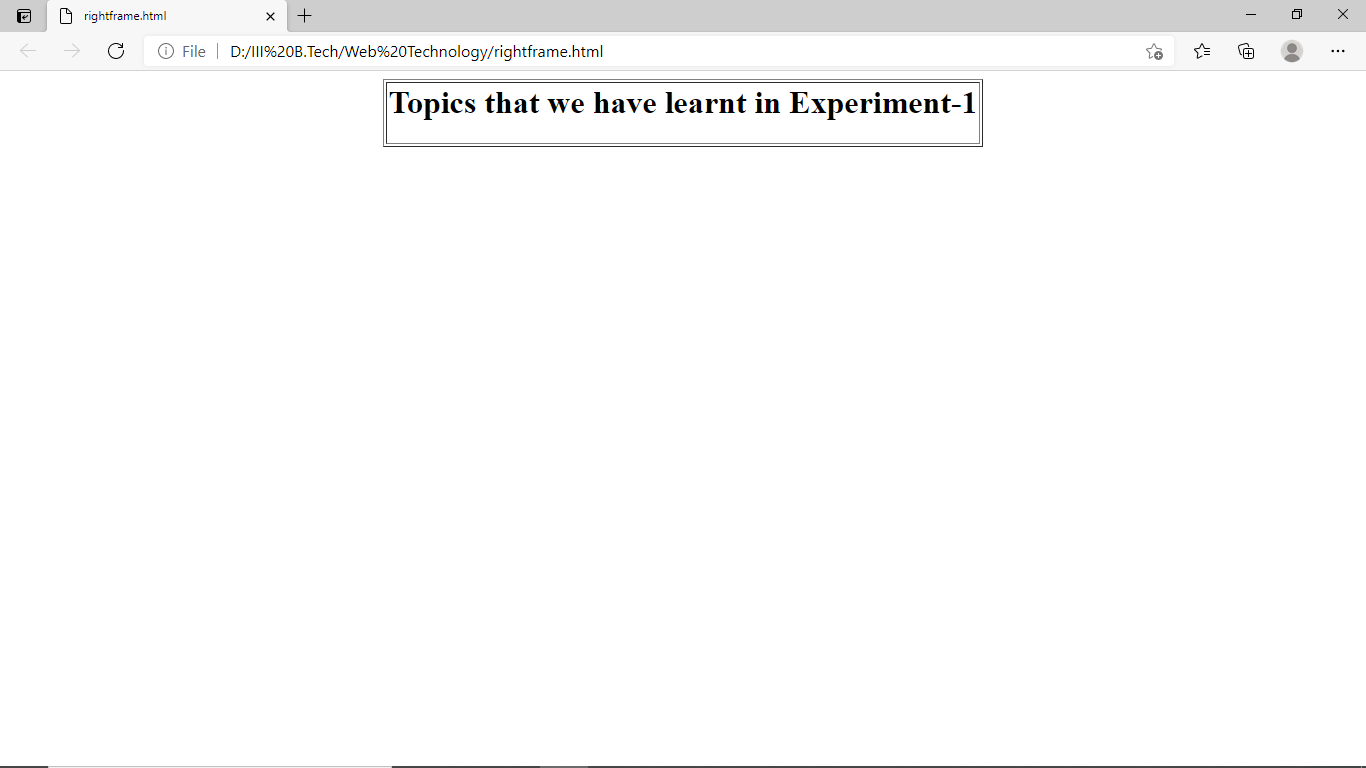
</table>

</center>

</body>

</html>

**Output:**



**Bottom Frame:**

<html>

<body>

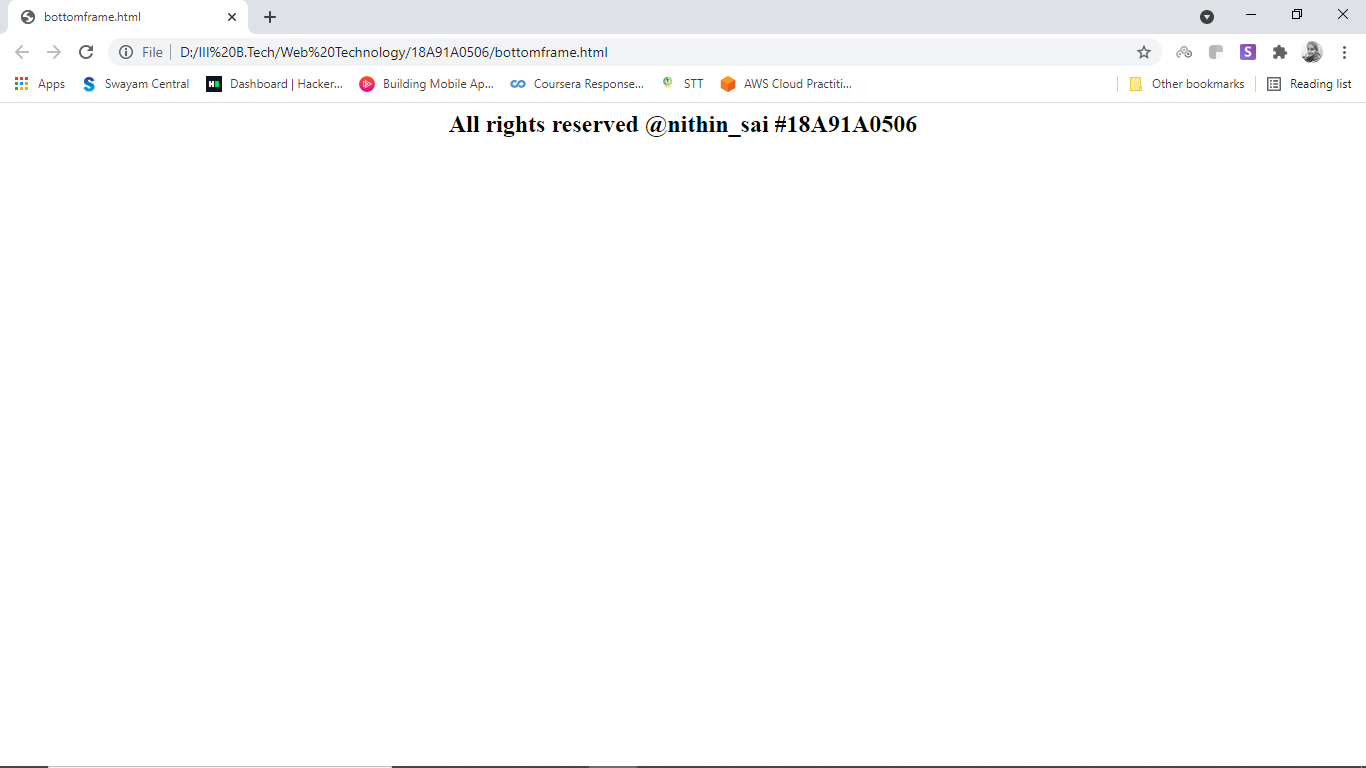
<center>

<h2>All rights reserved @nithin\_sai #18A91A0506</h2>

</center>

</body>

</html>



**Experiment-2:**

**2) Using Form Tags**

**2.1). Create a Login form**

**Aim:**

To create a login page using forms tag.

**Program:**

<!DOCTYPE html>

<html>

<head><title>Login Page</title>

</head>

<body bgcolor="orange">

<center><h1>LOGIN PAGE</h1></center>

<table border="2" align="center">

<form action="validate.php" method="post">

<tr><td>Login</td><td><input type="text" name="login" size="20" maxlength="20"

value=""></td></tr>

<tr><td>Password</td><td><input type="password" name="pwd" size="20"

maxlength="20"></td></tr>

<tr valign="middle"><td><input type="submit" value="login"></td>

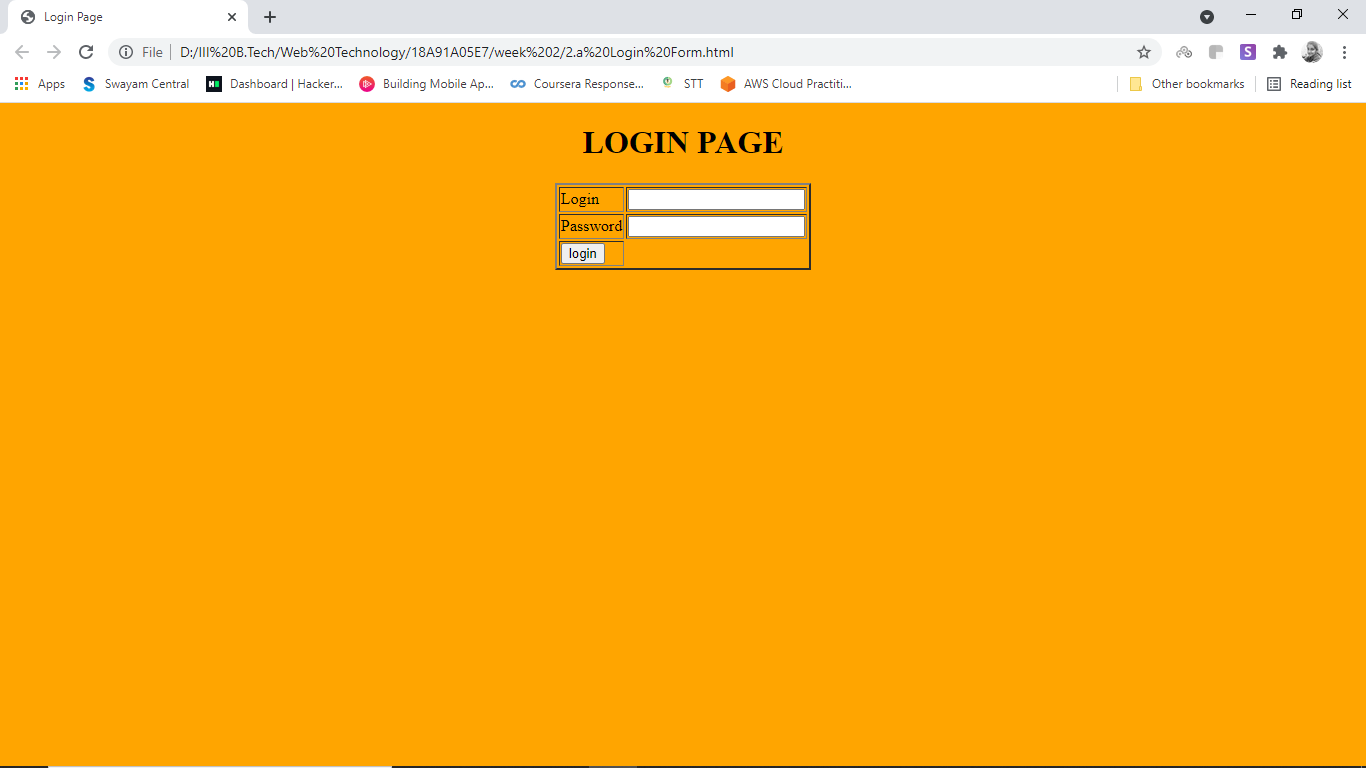
</form>

</table>

</body>

</html>

**Output:**



**2.2). Create a “registration form” with the following fields a) Name (Text field)**

**b) Password (password field)**

**c) E-mail id (text field)**

**d) Phone number (text field)**

**e) Sex (radio button)**

**f) Date of birth (3 select boxes)**

**g) Languages known (check boxes – English, Telugu, Hindi, Tamil)**

**h) Address (text area)**

**Aim:**

To create a registration page using forms tag.

**Program:**

<html>

<head><title>Registration Page</title>

</head>

<body bgcolor="pink">

<center>

<h3 align="center"><u>Registration Form</u></h3>

<table border="3">

<tr>

<td><form name="f1" action="" method="post" onsubmit="">

<table cellspacing="10" cellpadding="5">

<tr><td>Name</td><td><input type="text" name="Name" size="20" maxlength="20"

value=""></td></tr>

<tr><td>Password</td><td><input type="password" name="pwd" size="20"

maxlength="20"></td></tr>

<tr><td>Email id</td><td><input type="text" name="mail id" size="20" maxlength="20"

value=""></td></tr>

<tr><td>Phone Number</td><td><input type="text" name="no" size="20" maxlength="20"

value=""></td></tr>

<tr><td>Sex</td><td><input type="radio" name="Gender" value="male">Male

<input type="radio" name="Gender" value="female">Female</td></tr>

<tr><td>Date of birth</td><td><select>

<option>DD<option>01<option>02<option>03<option>04<option>05<option>06

<option>07<option>08<option>09<option>10<option>11<option>12<option>13

<option>14<option>15<option>16<option>17<option>18<option>19<option>20

<option>21<option>22<option>23<option>24<option>25<option>26<option>27

<option>28<option>29<option>30<option>31</select>

<select>

<option>MM<option>01<option>02<option>03<option>04<option>05<option>06

<option>07<option>08<option>09<option>10<option>11<option>12 </select>

<select>

<option>YYYY<option>1999<option>2000<option>2001<option>2003<option>2004

<option>2005 <option>2006<option>2007<option>2008<option>2009<option>2010

<option>2011<option>2012<option>2013<option>2014<option>2015<option>2016

<option>2017 <option>2018<option>2019 <option>2020 <option>2021 </select>

<tr><td>Languages Known</td><td><input type="checkbox" name="Language"

value="English">English

<input type="checkbox" name="Language" value="Telugu">Telugu

<input type="checkbox" name="Language" value="Hindi">Hindi

<input type="checkbox" name="Language" value="Tamil">Tamil</td></tr>

<tr><td>Address</td><td><textarea name="Address" rows="5" cols=25"></textarea>

<tr valign="middle"><td><input type="submit" value="submit"></td>

<td><input type="reset"></td></tr>

</tr>

</table>

</center>

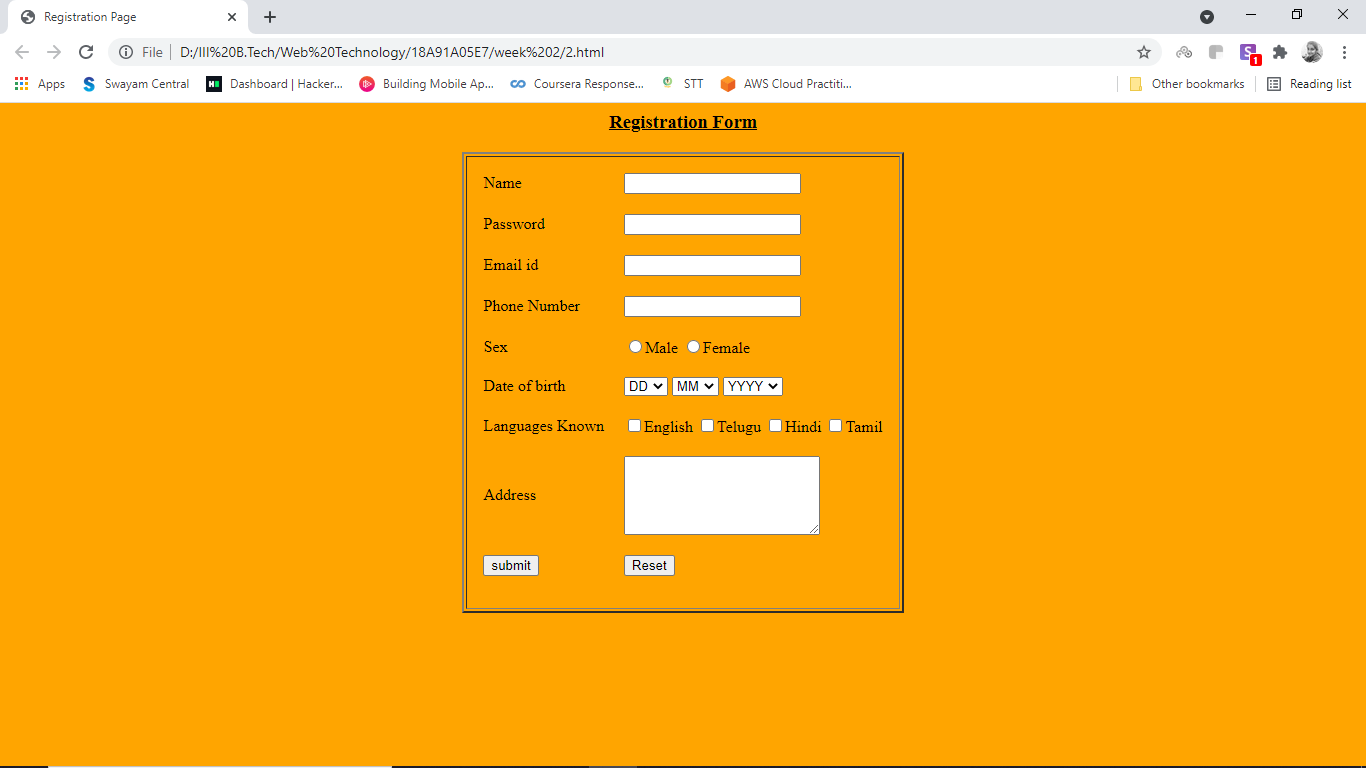
</table>

</form>

</body>

</html>

**Output:**



**3) CSS & Java Script**

**3.1) Design a web page using CSS (Cascading Style Sheets) which includes the following:**

**3.1.1) Use different font, styles: In the style definition you define how each selector should work (font, color etc). Then, in the body of your pages, you refer to these selectors to activate the styles.**

**Aim:**

To design a web page using CSS.

**Program:**

**style.css**

h1

{

color:red;

font-family:"Times New Roman", Times, serif;

font-size:22pt;

text-decoration:underline;

}

h2

{

color:blue;

font-family: Brush Script MT, Brush Script Std, cursive;

font-size:18pt;

text-decoration:overline;}

p

{

color:magenta;

font-family:Trebuchet MS;

font-size:14pt;

font-style:italic;

}

**3.1.1css.html**

<html>

<head>

<title>Usage of different font,styles and colors</title>

<link rel="stylesheet" type="text/css" href="3.1.1styles.css"/>

</head>

<body>

<h1>This header is in red</h1>

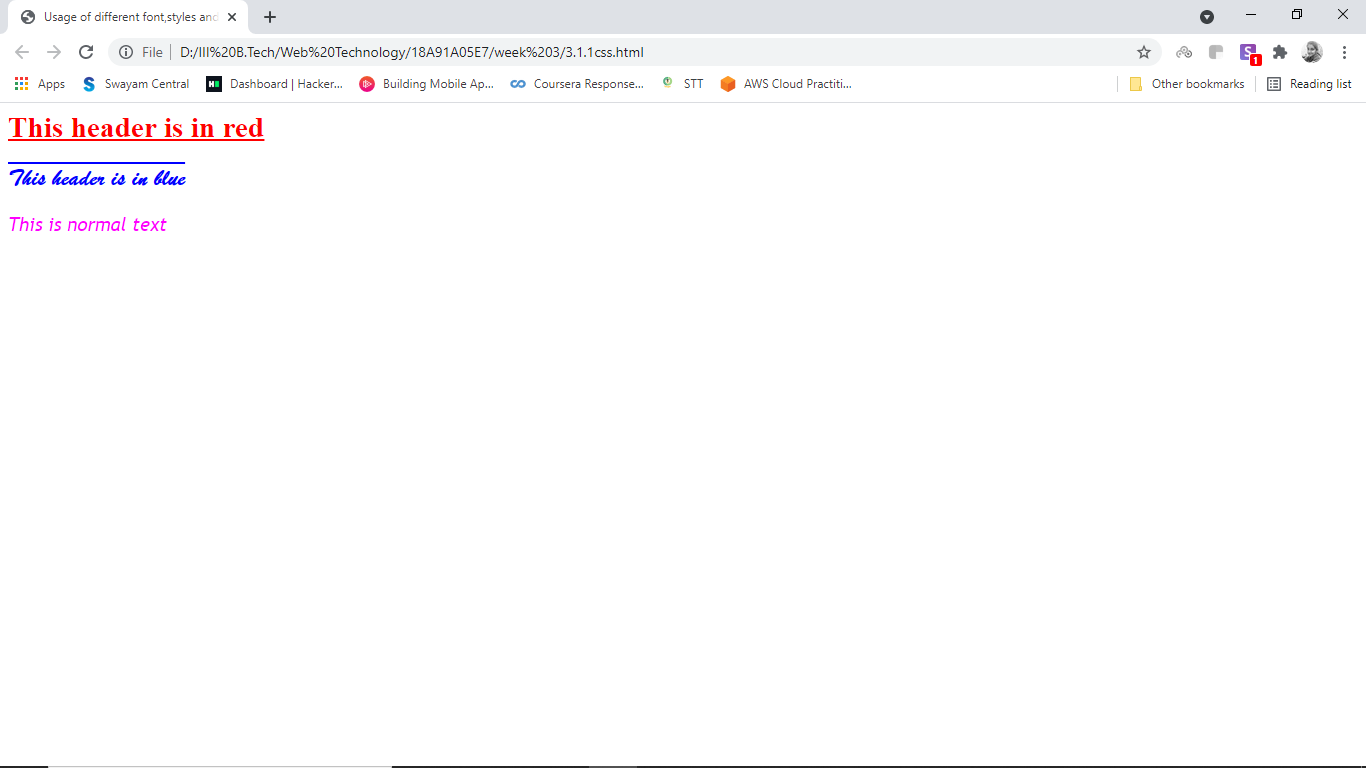
<h2>This header is in blue</h2>

<p>This is normal text</p>

</body>

</html>

**Output:**



**3.1.2) Set a background image for the web page and control the repetition of the image with the background-repeat property**

**Program:**

<html>

<head>

<title>Controlling background image</title>

<style type="text/css">

body

{

background-image:url("bird.jpg");

background-repeat:no-repeat;

}

h1

{

color: green;

}

</style>

</head>

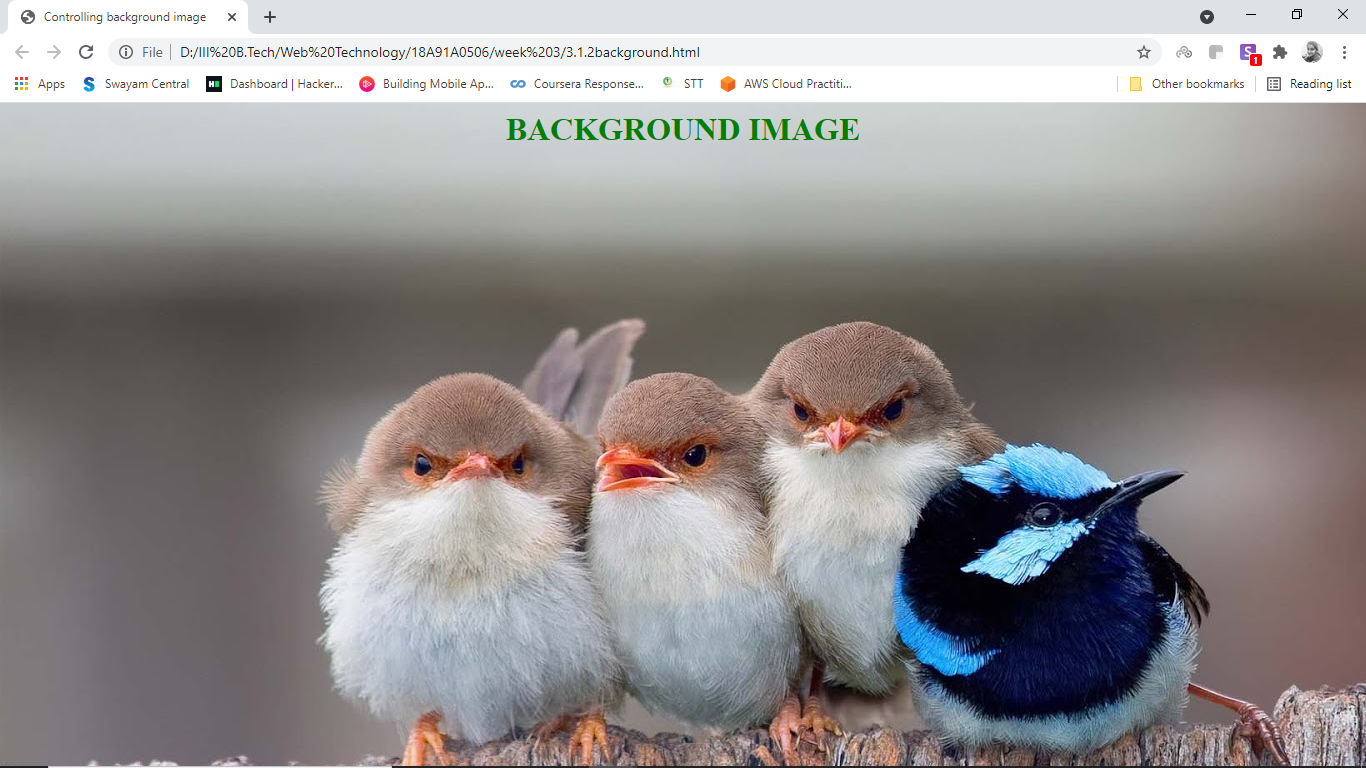
<body>

<h1 align="center">BACKGROUND IMAGE</h1>

</body>

</html>

**Output:**



**3.1.3) Define styles for link as visited, active, hover & link.**

**Aim:**

To define styles for a link as visited , active,hover & link.

**Program:**

<html>

<head>

<h1 align="center">Web Page using CSS</h1>

<style type="text/css">

body

{

background-image:url(bird1.jpg);

background-repeat:repeat-n;

}

p

{

color:red;

font-size:20pt;

font-family:chiller;

}

a:link

{

font-size:20pt;

background-color:white;

}

a:hover{

font-size:20pt;

background-color:pink;

cursor:crosshair;

}

a:active

{

font-size:20pt;

background-color:cyan;

cursor:help;

}

a:visited

{font-size:20pt;

background-color:tan;

}

</style>

</head>

<title>CSS Webpage!!!</title>

<body><br>

<p>Welcome to Web page using CSS where CSS means Cascading Style Sheets! Using CSS we can apply the common styles to different tags and also different styles to same tag ie repeated more than once in the html file</p>

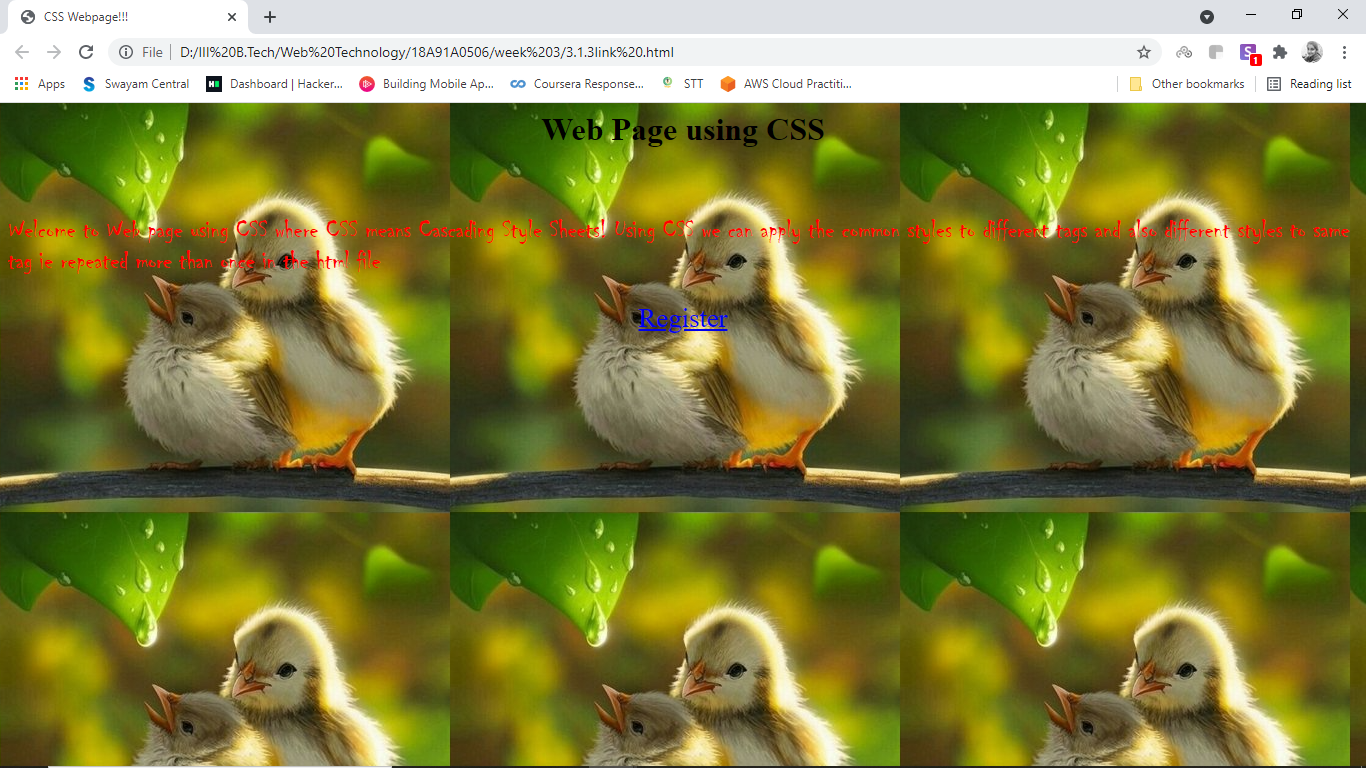
<a href="Registration Form.html"><center>Register</center></a>

<br><br><br><br><br><br><br><br><br>

</body>

</html>

**Output:**



**3.2) Write a JavaScript that takes a number from one text field in the range of 0-999 and display it in other text field in words. If the number is out of range, it should show “out of range” and if it is not a number, it should show “not a number” message in the result box.**

**Aim:**

To write a JavaScript that takes a number from one text field in the range of 0-999 and display it in other text field in words.

**Program:**

<script language="javascript">

function convert\_number\_to\_words(number) {

hyphen = '-';

conjunction = ' and ';

separator = ', ';

dictionary = {

0 : 'zero',

1 : 'one',

2 : 'two',

3 : 'three',

4 : 'four',

5 : 'five',

6 : 'six',

7 : 'seven',

8 : 'eight',

9 : 'nine',

10 : 'ten',

11 : 'eleven',

12 : 'twelve',

13 : 'thirteen',

14 : 'fourteen',

15 : 'fifteen',

16 : 'sixteen',

17 : 'seventeen',

18 : 'eighteen',

19 : 'nineteen',

20 : 'twenty',

30 : 'thirty',

40 : 'fourty',

50 : 'fifty',

60 : 'sixty',

70 : 'seventy',

80 : 'eighty',

90 : 'ninety',

100 : 'hundred',

};

if (number < 0 || number > 999)

{

alert("Enter a number range between 0 and 999");

return "";

}

switch (true)

{

case (number < 21):

string = dictionary[number];

break;

case (number < 100):

tens = parseInt(number / 10) \* 10;

units = number % 10;

string = dictionary[tens];

if (units) {

string += hyphen + dictionary[units];

}

break;

case (number < 1000):

hundreds = parseInt(number / 100);

remainder = number % 100;

string = dictionary[hundreds] + ' ' + dictionary[100];

if (remainder) {

string += conjunction + convert\_number\_to\_words(remainder);

}

break;

default:

break;

}

return string;}

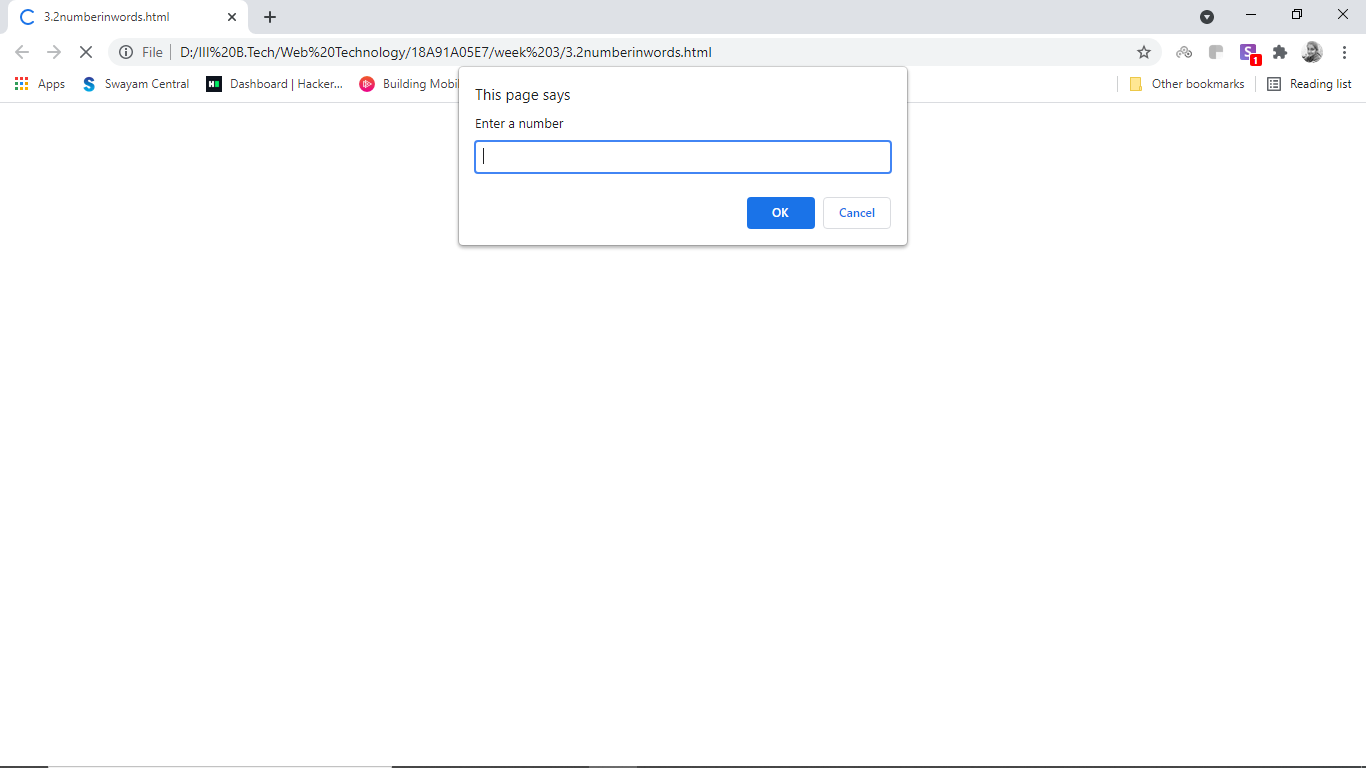
a=prompt("Enter a number");

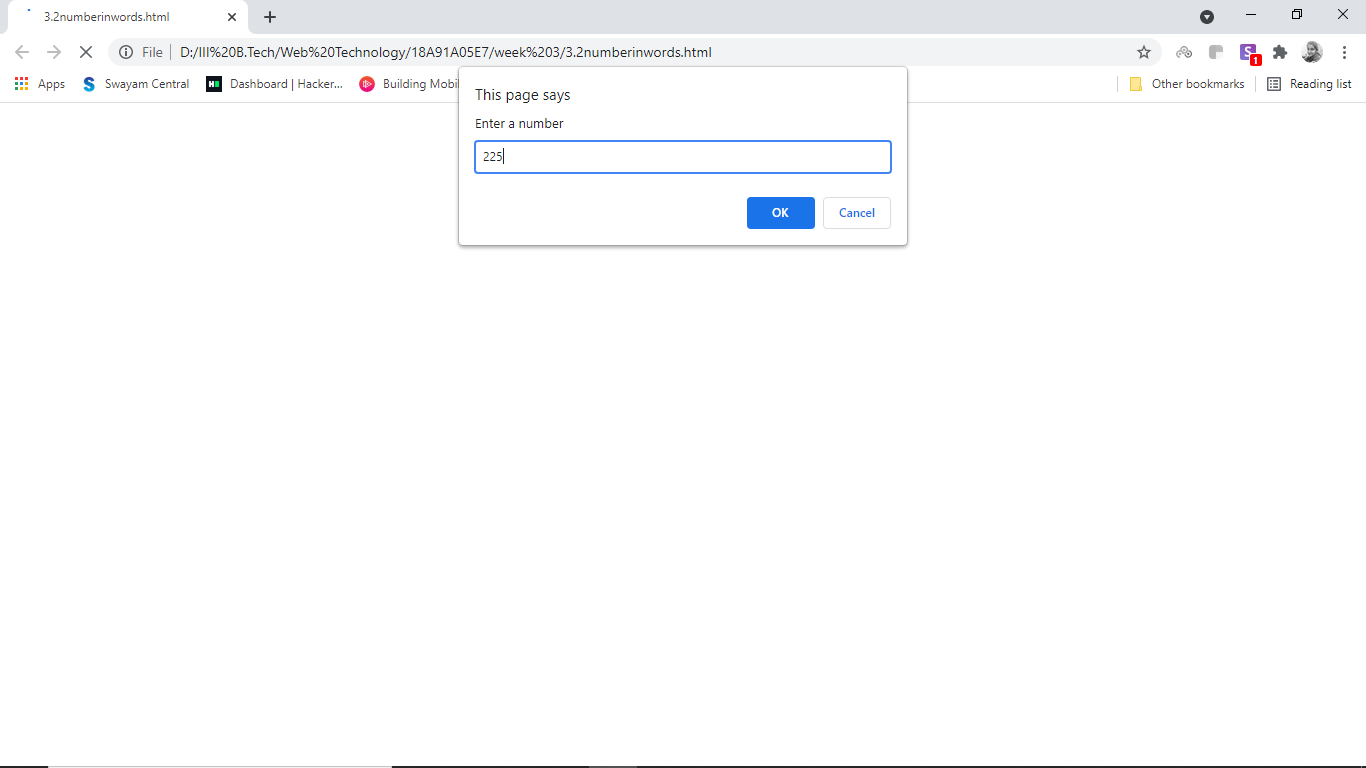
num=parseInt(a);

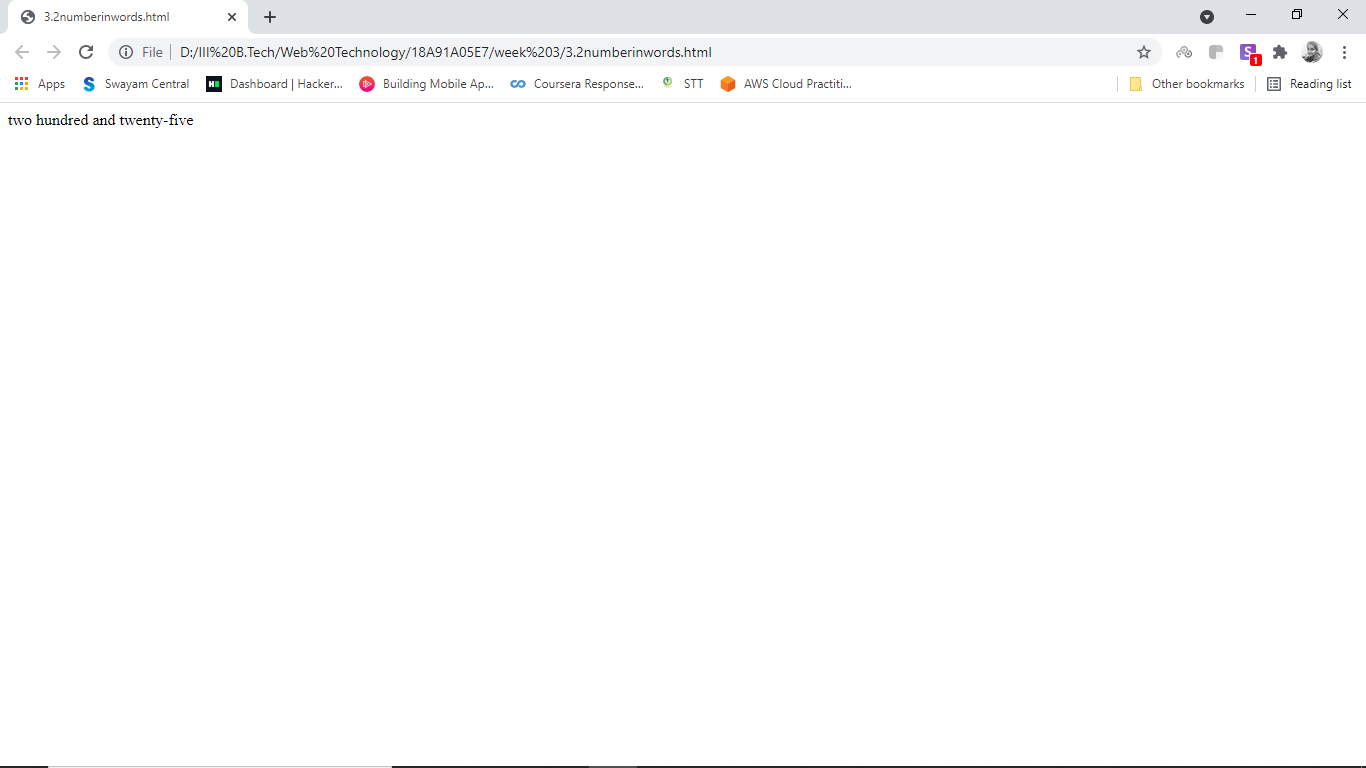
document.write(convert\_number\_to\_words(num));

</script>

**Output:**







**4) Java Script & XML**

**4.1) Write a JavaScript to validate the following fields in a registration page created in week 2**

**a. Name (start with alphabet and followed by alphanumeric and the length should not be less than 6 characters)**

**b. Password (it allows alphanumeric, special symbols and should not be less than 6 characters)**

**c. E-mail (should not contain invalid email addresses)**

**Aim:**

To validate a registration form using java script.

**Program:**

**4.1 Form Validaton.html**

<html>

<head>

<h1 align=center>Welcome to Validation Checking</h1><hr width=50%>

<script language="javascript">

function validation()

{

var x=f.un.value;

var len=x.length;

var val=x.charCodeAt(0);

var p=f.pw.value;

var c=f.cpw.value;

var a=f.email.value;

var atpos=a.indexOf("@");

var dotpos=a.lastIndexOf(".");

if(len<6 || x=='' || x==null)

{

alert("check your username! must be minimum 6 characters");

if(val<65 || val>90 && val <97 || val>122)

alert("username must begin with an alphabet");

return false;

}

else if(val<65 || val>90 && val <97 || val>122)

{

alert("username must begin with an alphabet");

return false;

}

else if(p=='' || c=='' || p.length<6 || c.length<6 || p!=c)

{

alert("Password and Confirm Password should be same and greater than 6 characters!");

return false;

}

else if(atpos<6 || dotpos<atpos+6 || dotpos+2>=a.length)

{

alert("Not a valid email id");

return false;

}

else

alert("Congragulations! you have submited successfully");

}

</script>

</head>

<title> Validation Check! </title>

<body>

<table align=center>

<form name="f" action="success.html" onsubmit="return validation();" method="post">

<tr>

<td>User Name:</td>

<td><input type="text" name="un"/></td>

</tr>

<tr>

<td>Password:</td>

<td><input type="password" name="pw"/></td>

</tr>

<tr>

<td>Confirm Password:</td>

<td><input type="password" name="cpw"/></td>

</tr>

<tr>

<td>E-mail ID:</td>

<td><input type="text" name="email"/></td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Submit"/></td>

</tr>

</form>

</table>

</body>

</html>

**success.html**

<html>

<title>success page</title>

<body>

<center>

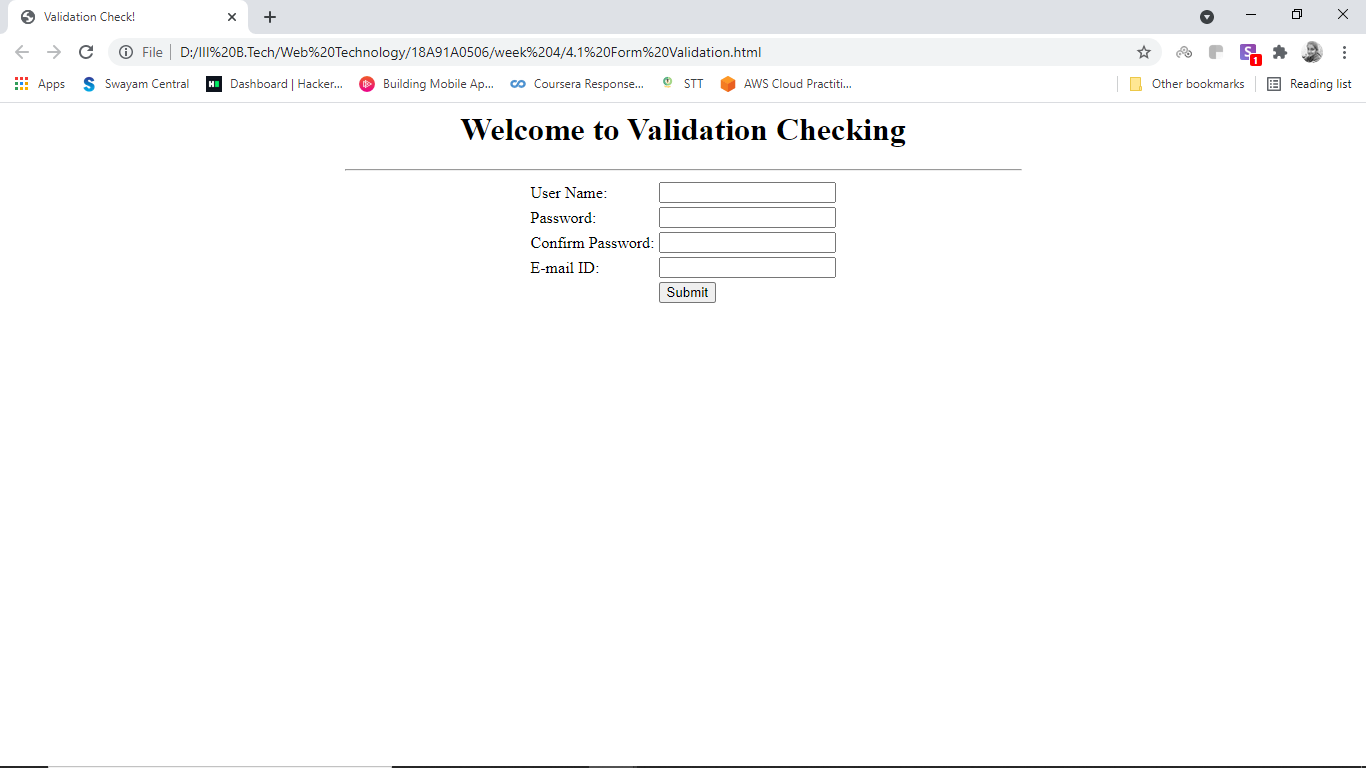
<h1>Your Form is validated successfully</h1>

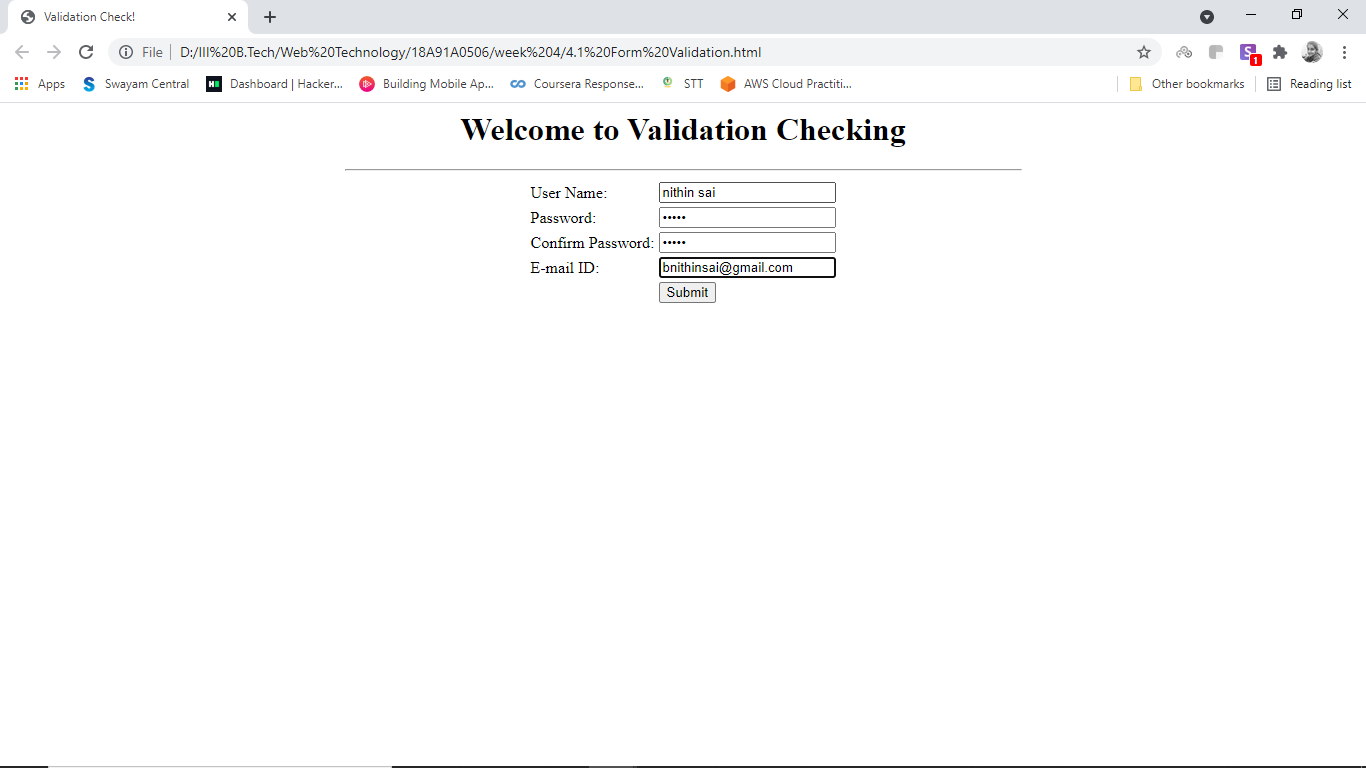
</center>

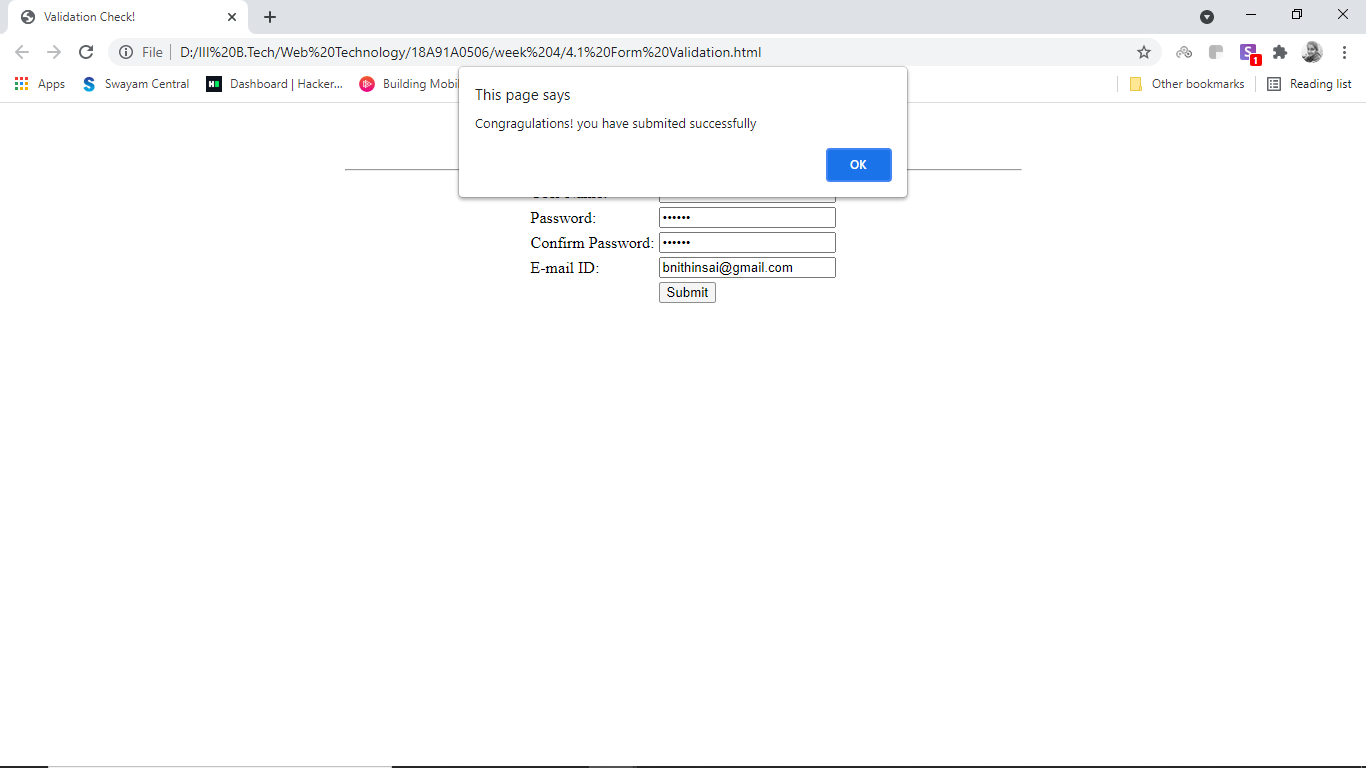
</body>

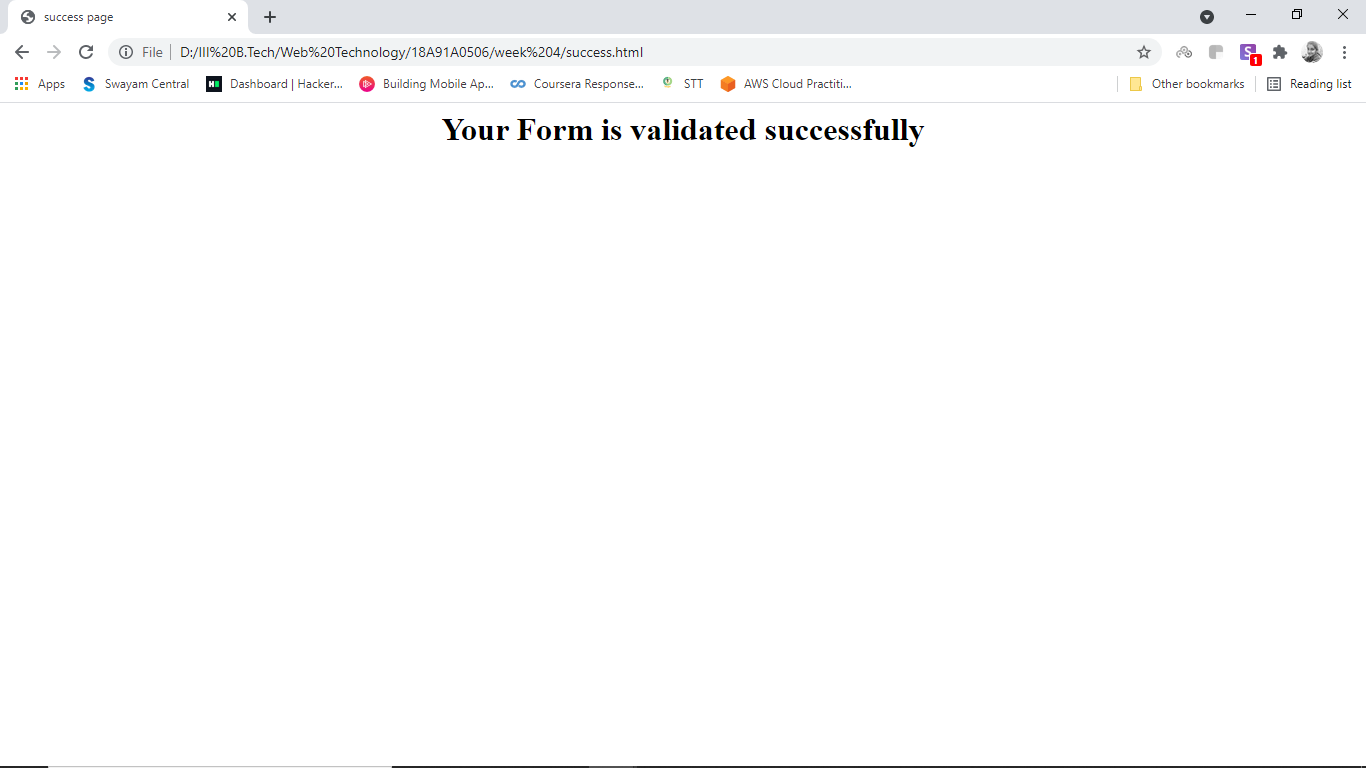
</html>

**Output:**









**4.2)Write an XML file which will display the Book information which includes the following:**

**a) Title of the book**

**b) Author Name**

**c) ISBN number**

**d) Publisher name**

**e) Edition**

**f) Price**

**Write a Document Type Definition (DTD) to validate the above XML file and display the details in a table (to do this use XSL).**

**Aim:**

To write a Document Type Definition (DTD) to validate the above XML file and display the details in a table (to do this use XSL).

**Program:**

**book.dtd:**

<!ELEMENT bookdetails (books+)>

<!ELEMENT books (title,author,isbn,publisher,edition,price)>

<!ELEMENT title (#PCDATA)>

<!ELEMENT author (#PCDATA)>

<!ELEMENT isbn (#PCDATA)

<!ELEMENT publisher (#PCDATA)

<!ELEMENT edition (#PCDATA)>

<!ELEMENT price (#PCDATA)>

**book.xml:**

<?xml version="1.0"?>

<!DOCTYPE bookdetails SYSTEM "book.dtd">

<?xml:stylesheet type="text/xsl" href="book.xsl"?>

<bookdetails>

<books>

<title> C </title>

<author> Balaguruswamy </author>

<isbn> 123456</isbn>

<publisher>Oxford</publisher>

<edition> Edition-II </edition>

<price>$30.00</price>

</books>

<books>

<title> C++ </title>

<author> yaswanth kanethkar </author>

<isbn>654321</isbn>

<publisher>Tata McHill</publisher>

<edition> Edition-I </edition>

<price>$35.00</price>

</books>

<books>

<title> JAVA </title>

<author> Herbert Schildt </author>

<isbn>789456</isbn>

<publisher>Cenage</publisher>

<edition> Edition-IV </edition>

<price>$50.00</price>

</books> </bookdetails>

**book.xsl:**

<?xml version="1.0"?>

<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">

<html>

<head> <center>Book Details</center> </head>

<body>

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<table border="1" align="center">

<tr>

<th> TITLE </th>

<th> AUTHOR </th>

<th>ISBN</th>

<th>PUBLISHER</th>

<th> EDITON </th>

<th> PRICE </th>

</tr>

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<tr>

<td> <xsl:value-of select="title"/></td>

<td> <xsl:value-of select="author"/></td>

<td> <xsl:value-of select="isbn"/></td>

<td> <xsl:value-of select="publisher"/></td>

<td> <xsl:value-of select="edition"/></td>

<td> <xsl:value-of select="price"/></td>

</tr>

</xsl:for-each>

</table>

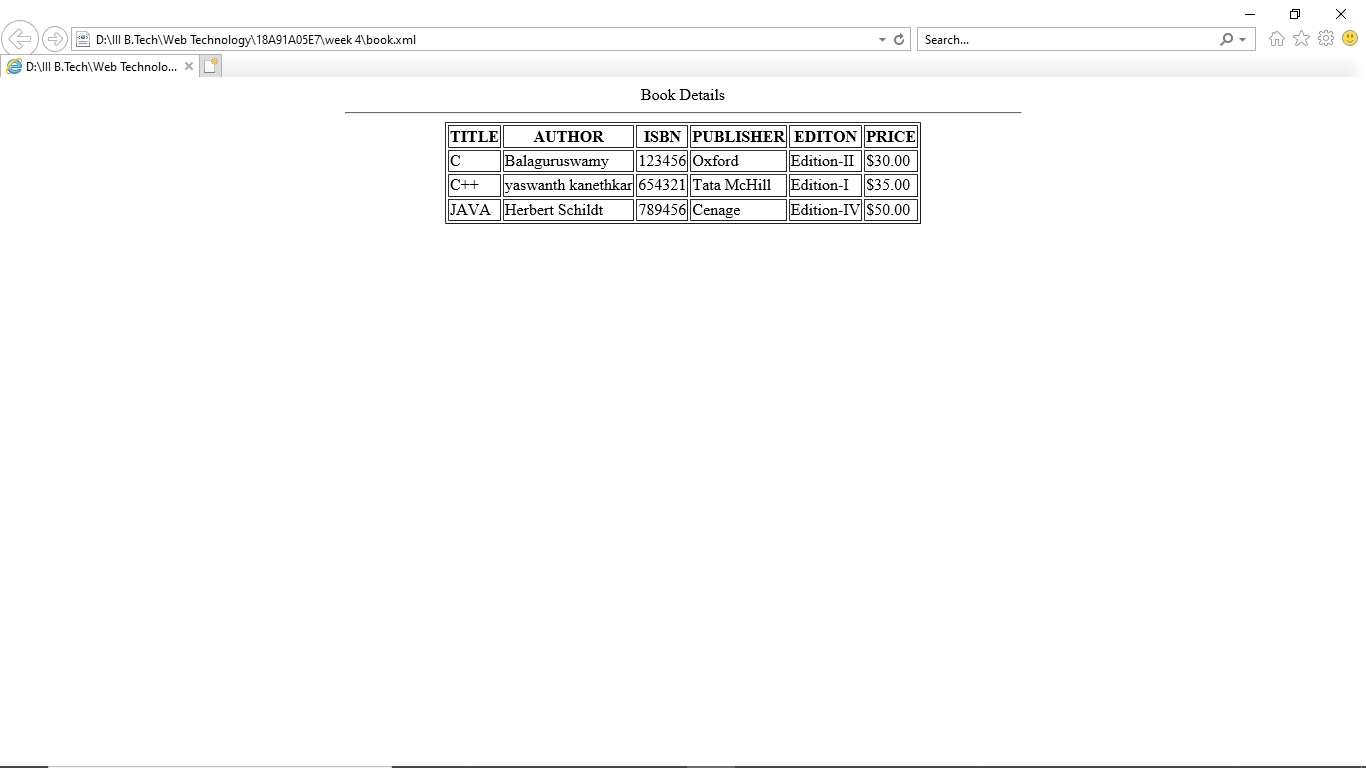
</body>

</html>

</xsl:template>

</xsl:stylesheet>

**Output:**

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