Ex No: 1	CREATE A WEB PAGE WITH THE
Date:	**FOLLOWING USING HTML.**

AIM:

1. To Create a web page with the following using HTML.
• To embed an image map in a web page.
• To fix the hot spots.
• Show all the related information when the hot spots are clicked.

ALGORITHM:

• Create a html file with map tag.
• Set the source attribute of the img tag to the location of the image and also set the use map attribute.
• Specify an area with name, shape and href set of the appropriate value.
• Repeat step3 as many hot spots you want to put in the map.
• Create html file for each and every hot spots the user will select the particular location it shows information about it.

PROGRAM:

/*mapping.html*/
```
<html>
<head>
<title>India Map</title>
<head>
<body bgcolor="PINK">
<font face="Monotype Corsiva" color="BLUE" size="6">
<marquee direction="left" behavior="alternate">INDIA MAP
</marquee>
</font>
<hr size="6" color="RED">
<map name="pagemap">
<area shape="rect" coords="194,151,247,219" href="map1.html">
<area shape="rect" coords="291,268,384,337" href="map2.html">
<area shape="rect" coords="100,337,197,384" href="map3.html">
<area shape="rect" coords="236,543,344,577" href="map4.html">
</map>
<img src="india.bmp" usemap="#pagemap">
</body>
<font color="#ff0000" size="5">
```

```
<p><b>Hints:</b><i>Click on the Name of the Cities in the map
to know itsdescription</i></p>
</html>
```

/*map1.html*/
```
<html>
<body bgcolor="SKYBLUE">
<font face="Monotype Corsiva" size="18" color="RED">
<center><b><i><tt>Delhi is the capital of our INDIA<br> and <br>More IT
companies areCamped at Delhi</tt></i></b></center>
<a href="mapping.html">Home Page</a>
</font>
</body>
</html>
```

/*map2.html*/
```
<html>
<body bgcolor="SKYBLUE">
<font face="Times New Roman" size="18" color="RED">
<center><b><i>Calcutta is the wealthy city in WEST BENGAL<br> and <br>it
has Famous"Sunderbans Forests"</i></b></center>
<a href="mapping.html">Home Page</a>
</font></body></html>
```
/*map3.html*/
```
<html>
<body bgcolor="DARKGREEN">
<font face="Times New Roman" size="12" color="RED">
<center>MUMBAI is the capital of Maharashtra<br> and <br>it has
Famous IndiaGate</center>
<a href="mapping.html">Home Page</a>
</font>
</body>
</html>
```

/*map4.html*/
```
<html>
<body bgcolor="BLACK">
<font face="Times New Roman" size="12" color="RED">
<center>Chennai is hte capital of Tamil Nadu<br> and <br>More IT companies
are camped atChennai</center>
<a href="mapping.html">Home Page</a>
</font></body></html>
```
OUTPUT:

RESULT: Thus creation of an webpage using cascading style sheet has been developed successfully.

ii)Using Javascript to display the above

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Image Map Example</title>
    <style>
      #map-container {
        position: relative;
      }

      #info-box {
        position: absolute;
        top: 10px;
        left: 10px;
        padding: 10px;
        background-color: #fff;
        border: 1px solid #ccc;
        border-radius: 4px;
        display: none;
      }
    </style>
</head>
<body>

   <div id="map-container">
      <img src="c:\Users\A\Downloads\example-map-image.jpg" alt="Example Image Map"
usemap="#hotspots">

      <map name="hotspots">
         <!-- Define hot spots with coordinates -->
         <area shape="rect" coords="10,10,100,100" alt="Hotspot 1" onclick="showInfo('Hotspot 1
Information')">
         <area shape="circle" coords="150,150,50" alt="Hotspot 2" onclick="showInfo('Hotspot 2
Information')">
         <area shape="poly" coords="300,10,400,50,350,100" alt="Hotspot 3"
onclick="showInfo('Hotspot 3 Information')">
      </map>
   </div>

   <div id="info-box"></div>

   <script>
      function showInfo(info) {
        // Display related information in the info-box
        var infoBox = document.getElementById("info-box");
        infoBox.innerHTML = info;
        infoBox.style.display = "block";
      }
   </script>
```
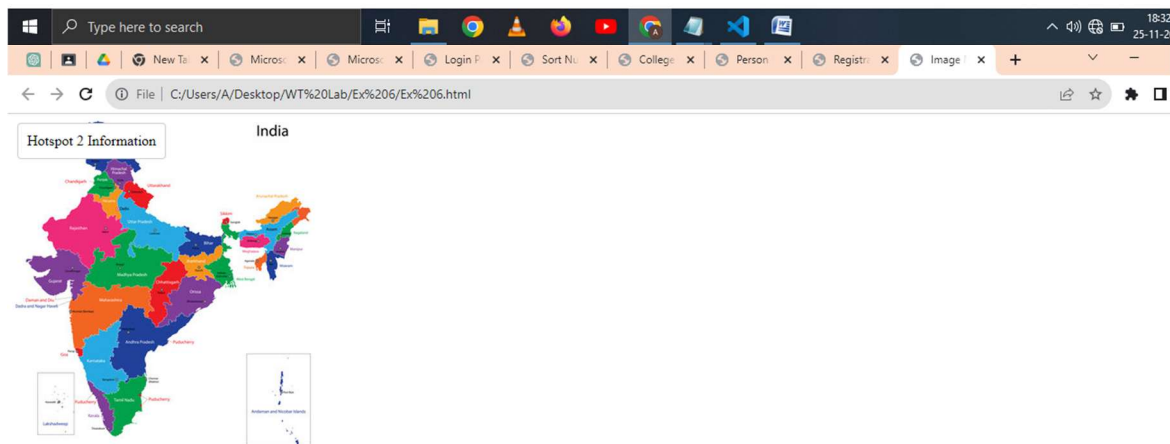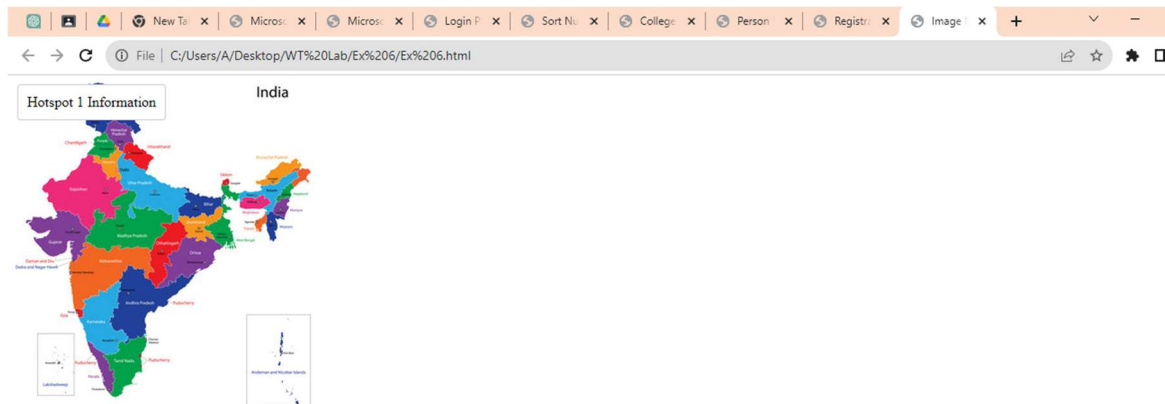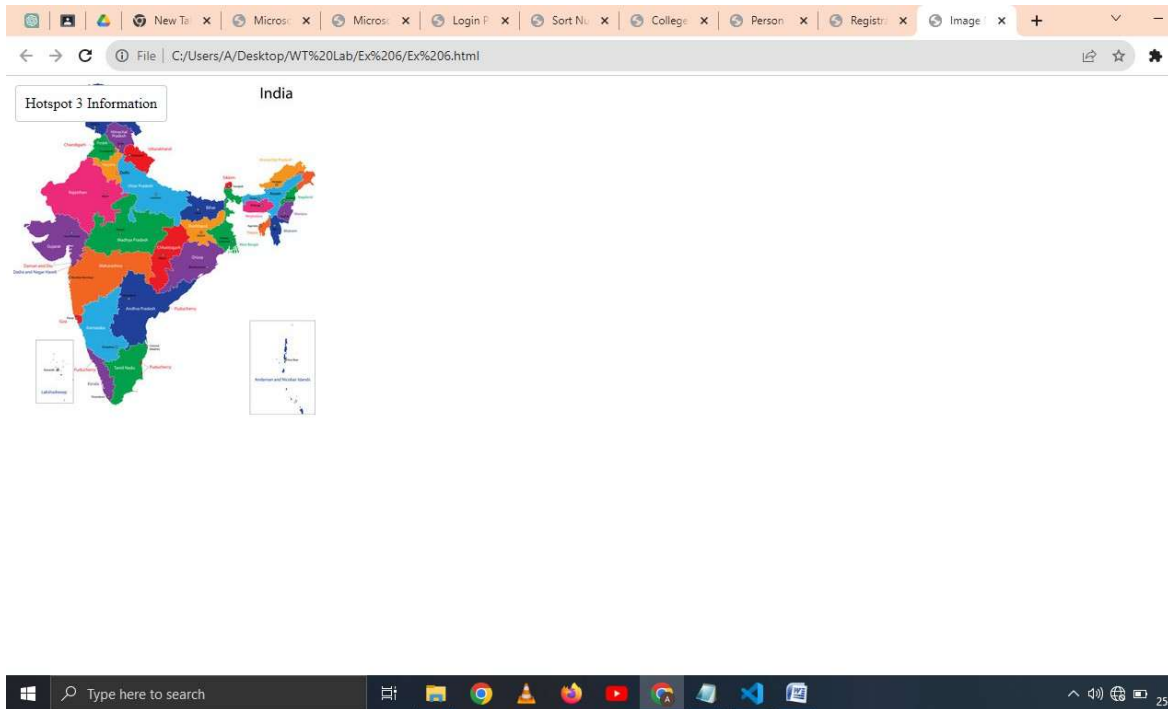
```
</body>
</html>
```

Ex No:2	**CREATE A WEB PAGE WITH ALL TYPES OF CASCADING STYLE SHEETS.**
Date:	

AIM:

To create a webpage with the following using html to embedded the style sheet

ALGORITHM:

Step1: Create html file with the style tag, inside head tag.
Step2: Set the style such as font-family, font-size, color, left etc, for the headingh1,h2,…h6 and respectively.
Step3: Close the head tag.
Step4: Specify the heading and information required inside the body tag.Step5: Close the opened tag.

PROGRAM:

```
<! DOCTYPE html >

<html xmlns="http://www.w3org/1999/xhtml">

<head>

<title>Embedded style sheet</title>
```

```html
<style type="text/css">
h1
{

font-family:arial;
color:green;
}

h2

{

font-family:arial;
color:red;
left:20px;
}

h3

{

font-family:arial;
color:blue;
}

p

{

font-sise:14pt;

font-family:verdana;

}
</style>

</head>

<body>

<h1>
<center>This is created using embedded style sheet

</center>

</h1>

<h2>This line is allingned left and red colored;
```

</h2>

<p>

The embedded style sheet is the most commonly used
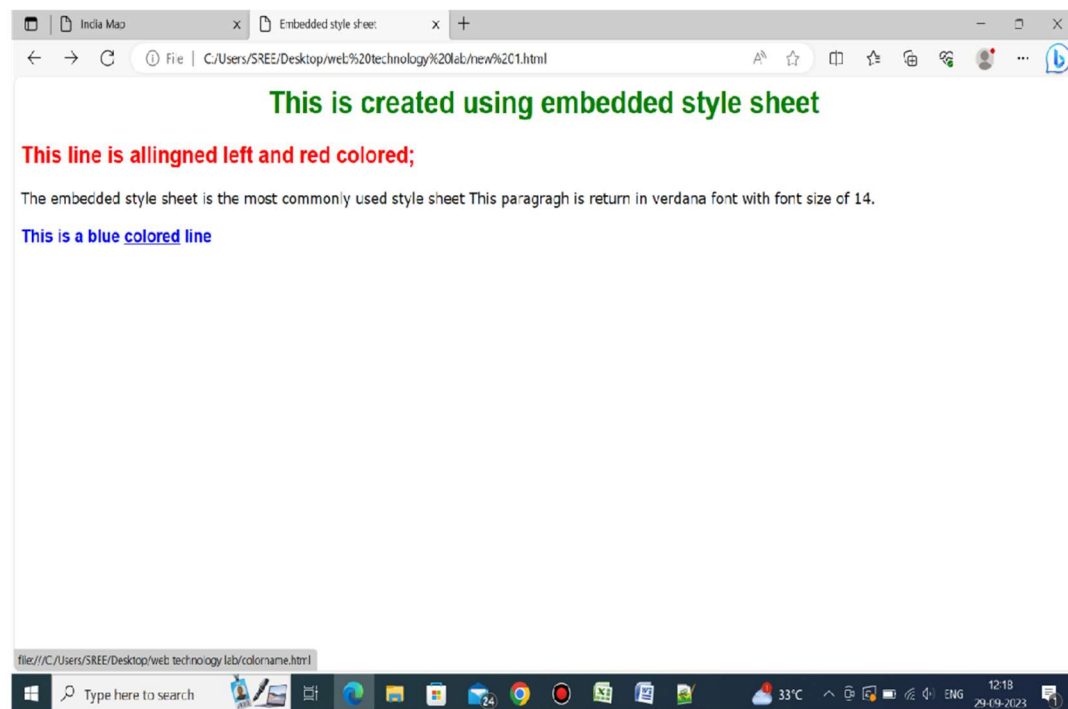style sheetThis paragragh is return in verdana font
with font size of 14.
</p>

<h3>

This is a blue colored line

</h3>

</body>

</html>

OUTPUT:

(ii) To **Create a web page that displays college information using various style sheets.**

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

    <!-- Inline Styles -->
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f4f4;
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }

        header {
            background-color: #c683d7;
            color: white;
            text-align: center;
            padding: 1em;
        }

        section {
            margin: 20px;
            padding: 20px;
            background-color: #fff;
            border-radius: 5px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        h1 {
            color: #333;
        }

        p {
            line-height: 1.6;
            color: #666;
        }

        footer {
            background-color: #333;
            color: white;
            text-align: center;
            padding: 1em;
```

```html
          position: fixed;
          bottom: 0;
          width: 100%;
      }
    </style>

    <!-- Internal Styles -->
    <style>
      h2 {
        color: #008080;
      }

      ul {
        list-style-type: none;
        padding: 0;
      }

      li {
        margin-bottom: 8px;
      }
    </style>

    <!-- External Styles -->
    <link rel="stylesheet" href="styles.css">
</head>
<body>

  <header>
      <h1> Grace College Information</h1>
  </header>

  <section>
      <h2>About Us</h2>
      <p>Welcome to our college! We are committed to providing quality education
and fostering a supportive learning environment.</p>
  </section>

  <section>
      <h2>Courses Offered</h2>
      <ul>
        <li>CSE</li>
        <li>EEE</li>
        <li>ECE</li>
        <li>B.Tech: AI-DS</li>
      <li>CIVIL</li>
        <li>MECH</li>
```

```html
            </ul>
        </section>

        <section>
            <h2>Contact Information</h2>
            <p>Email: info@gracecoe.org</p>
            <p>Phone: +91 9585511757</p>
            <p>Website:www.gracecoe.org</p>
        </section>

        <footer>
            &copy; 2023 College Information
        </footer>

    </body>
</html>
```
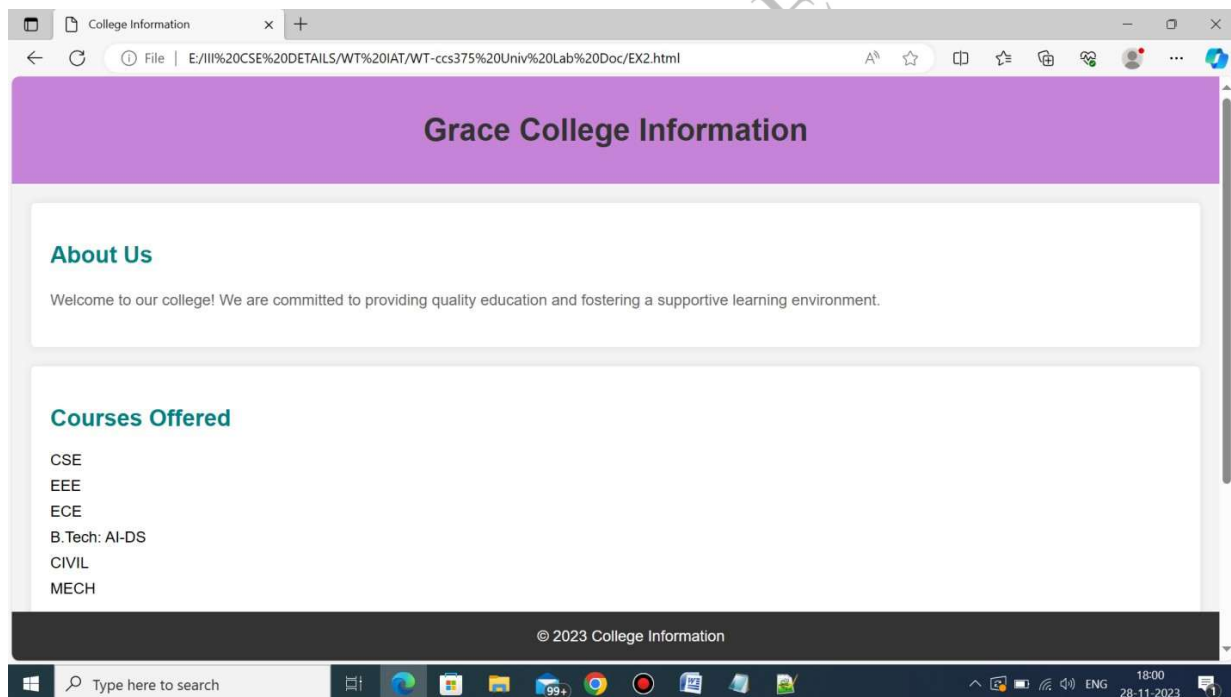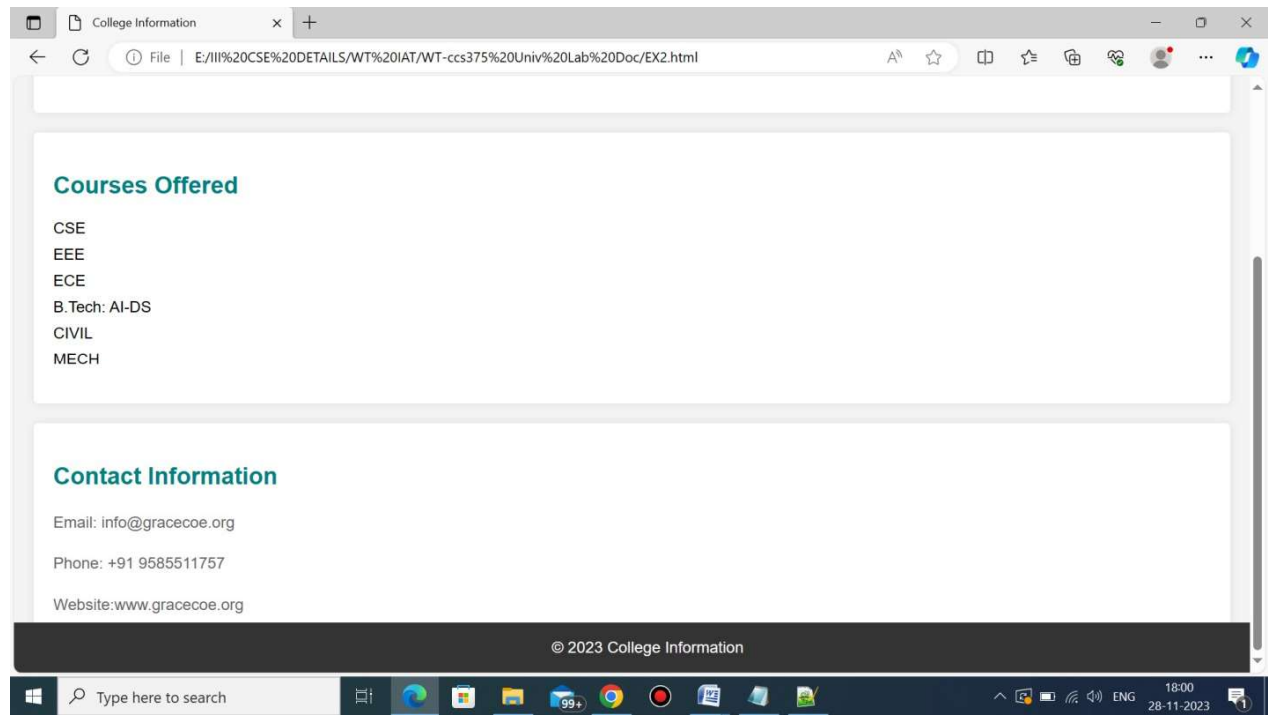
Output:

RESULT: Thus creation of an webpage using cascading style sheet has beendeveloped successfully.

Ex No:3	**CLIENT SIDE SCRIPTS FOR VALIDATING WEB FORM CONTROLS USING DHTML**
Date:	

AIM:

To develop a program for validating web form control using DHTML.

ALGORITHM:

Step1:Start the program.
Step2: Define the title within the tag.
Step3: Give the script type within the script tag.
Step4: Validate each and every column as the box with the if condition.
Step5: If empty value are given or the block term are next then it is verified with certaincondition.
Step6:If values is empty then a message is been displayed.
Step7: Form is designed with GUI tool is description.
Step8: All buttons are processed accordingly.
Step9: Stop the program.

PROGRAM:

//Webforms.html

```
<html>
<head>
<script type='text/javascript'>
function formValidator()
{
var firstname=document.getElementById('firstname');
var lastname=document.getElementById('lastname');
var addr=document.getElementById('addr');
var zip=document.getElementById('zip');
var   Countries=document.getElementById('Countries');
var username=document.getElementById('username');
var email=document.getElementById('email');
var dd=document.getElementById('dd');
var mm=document.getElementById('mm');
var yyyy=document.getElementById('yyyy');
var comment=document.getElementById('comment');
var password=document.getElementById('password');
if(isAlphabet(firstname,"Please enter only letters for your First name"))
{
if(isAlphabet(lastname,"Please enter only letters for your Last name"))
{
```

```javascript
if(isNumeric(dd,"Please enter a date"))
{
if(madeSelection(mm,"Please Choose"))
{
if(isNumeric(yyyy,"Please enter a year"))
{
if(isAlphanumeric(addr,"Enter Numbers and letters only for address"))
{
if(isNumeric(zip,"please enter a valid zip code"))
{
if(madeSelection(Countries,"Please  Choose"))
{
if(lengthRestriction(username,6,8))
{
if(isAlphanumeric(password,"Enter Numbers and letters only for password"))
{
if(emailValidator(email,"Please enter a valid email address"))
{
if(notEmpty(comment,"Please fill the comment"))
{
document.write("<b><i>Thank's for submitting your details</i></b>");
alert("Successful Entry!!");
return true;
}}}}}}}}}}}
return false;
}
function notEmpty(elem,helperMsg)
{
if(elem.value.length==0)
{
alert(helperMsg);
elem.focus();
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]+$/; if(elem.value.match(alphaExp))
{
return true;
}
else
{
alert(helperMsg);
elem.focus();
return false;
}
}
function isAlphanumeric(elem,helperMsg)
{
var alphaExp=/^[0-9, a-z a-z, 0-9, A-Z A-Z, - 0-9 . ]+$/;
if(elem.value.match(alphaExp))
{
return true;
}
else
{
alert(helperMsg);elem.focus(); return false;
}
}
function lengthRestriction(elem,min,max)
{
var unput=elem.value;
if(unput.length>=min&&unput.length<=max)
{
return true;
}
else
{
alert("Please enter between "+min+" and "+max+" charactters");
elem.focus();
return false;
}
}
function madeSelection(elem,helperMsg)
{
if(elem.value=="Please Choose")
{
alert(helperMsg);elem.focus(); return false;
}
else
```

```
{
return true;
}
}
function emailValidator(elem,helperMsg)
{
var emailExp=/^[0-9 a-z . a-z 0-9]+\@[a-z]+\.[a-z]{2,4}$/;
if(elem.value.match(emailExp))
{
return true;
}
else
{
alert(helperMsg);elem.focus(); return false;
}
}
</script>
<h1><center><b>
<font color="#347235">Please Enter YourDetails</font></b></center>
</h1>
</head>
<body bgcolor="LIGHTGREEN">
<hr>
<form onsubmit='return formValidator()' height="50%">
<table height="50%" border="3pt" align="center">
<tr><td><b>
<font color="#347235">First Name:</font></b></td>
<td><inputtype='text' id='firstname'/></td></tr><br />
<tr><td><b>
<font color="#347235">Last Name:</font></b></td>
<td><inputtype='text' id='lastname'/></td></tr><br />
<tr><td><b>
<font color="347235">Date of Birth(dd/mm/yyyy):</font></b></td>
<td><input type='text' id='dd' />
<select id='mm'>
<option>Please Choose</option>
<option value="1">Jan</option>
<option value="2">Feb</option>
<option value="3">Mar</option>
<option value="4">Apr</option>
<option value="5">May</option>
<option value="6">Jun</option>
<option value="7">Jul</option>
<option value="8">Aug</option>
<option value="9">Sep</option>
<option value="10">Oct</option>
```

```html
<option value="11">Nov</option>
<option value="12">Dec</option>
</select>
<input type='text' id='yyyy' /></td></tr><br />
<tr><td><b>
<font color="#347235">Address:</font></b></td>
<td><inputtype='text' id='addr'/></td></tr><br />
<tr><td><b>
<font color="#347235">Zip code:</font></b></td>
<td><inputtype='text' id='zip'/></td></tr><br />
<tr><td><b>
<font color="#347235">Countries:</font></b></td>
<td><selectid='Countries'>
<option>Please Choose</option>
<option value="United Kingdom">United Kingdom</option>
<option value="Afghanistan">Afghanistan</option>
<option value="America">America</option>
<option value="India">India</option>
<option value="Tanzania">Tanzania</option>
<option value="Zimbabwe">Zimbabwe</option>
<option value="Switzerland">Switzerland</option>
</select></td></tr><br />
<tr><td><b>
<font color="#347235">Username(6-8 characters):</font></b></td>
<td><input type='text' id='username' /></td></tr><br />
<tr><td><b><font color="#347235">Password:</font></b></td>
<td><inputtype='password' id='password' /></td></tr><br />
<tr><td><b><font color="#347235">Email:</font></b></td>
<td><inputtype='text' id='email' /></td></tr><br />
<tr><td><b>
<font color="#347235">Comment:</font></b></td>
<td><textarea id='comment'cols="20"rows="5"
name="Address"></textarea></td></tr><br />
<tr><td><input type='submit' value='Check Form' /></td></tr>
</table>
</form>
</body>
</html>
```

OUTPUT:

Apply validation

RESULT: Thus developing client side scripts for validating web from controls using DHTML has been verified.

Ex No :5	**Write programs in Java using Servlets:**
	● To invoke servlets from HTML forms.
Date:	**● Session Tracking.**

<u>AIM</u>

To . Write programs in Java using Servlets:
- ● To invoke servlets from HTML forms.
- ● Session Tracking.

ALGORITHM:

Step1: In html program, define the html, head and title tag.

Step2: Then the title is Student Information Form and close the title and head tag.

Step3: Define the body tag inside the body tag create form and tablesimultaneously.

Step4: The table consists of following information Roll no, Student name,Address, Phone no

and total marks.

Step5: In the servlet program, import the summary package and create a ownservlet class

extends with generic servlet.

Step6: In the service method defined to request and response.

Step7: Create the object and for print writer and get writer() value.

Step8: The enumeration object get the servlet request parameter.

Step9: Create objects for string method and it is displayed another object value

received get parameter of name received and displayed the value received

value.

PROGRAM:

```
//index.jsp
<html>
<head>
<title>Processing get requests with data</title>
</head>
<body>
 <form action = "Servlet3" method = "get">
```

```html
 <b><p><label>Enter Your name Please!!
<br />
<input type = "text" name = "firstname" />
<input type = "submit" value = "Submit" />
</label></p></b>
</form>
</body>
</html>
```

//Servlet3.java
```java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class Servlet3 extends HttpServlet
{
protected void doGet(HttpServletRequest request, HttpServletResponseresponse)
   throws ServletException, IOException
   {
String firstName = request.getParameter( "firstname" );
response.setContentType( "text/html" );
PrintWriter out = response.getWriter();
// send XHTML document to client
// start XHTML documentout.println( "<html>" );
// head section of documentout.println( "<head>" );
out.println("<title>Processing get requests with data</title>" );
out.println( "</head>" );
// body section of documentout.println( "<body>" );
out.println( "<h1>Hello " + firstName + ",<br />" );
out.println( "Welcome to Servlets!</h1>" );
out.println( "</body>" );
// end XHTML document
out.println( "</html>" );
out.close(); // close stream to complete the page
}
public String
 getServletInfo() {
 return "Short
 description";
}
}
```

Program (ii)

Session tracking

GfgSession.java

```java
// Java Program to Illustrate Creation and last-accessed
// Times for a Session
// Import required java libraries
import java.io.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;

// Extend HttpServlet class
public class GfgSession extends HttpServlet
 {
public void doGet(HttpServletRequest request,HttpServletResponse response)throws
ServletException, IOException
     {

// Create a session object if it is already not
// created.
HttpSession session = request.getSession(true);

// Get session creation time.
Date createTime= new Date(session.getCreationTime());

// Get last access time of this web page.
Date lastAccessTime  = new Date(session.getLastAccessedTime());

String title = "Welcome Back to GraceCollege";
Integer visitCount = new Integer(0);
String visitCountKey = new String("visitCount");
String userIDKey = new String("userID");
String userID = new String("GFG");

// Check if this is new comer on your web page.
if (session.isNew()) {
        title = "Welcome to GraceCollege";
        session.setAttribute(userIDKey, userID);
                    }
else {
        visitCount = (Integer)session.getAttribute(visitCountKey);
        visitCount = visitCount + 1;
        userID= (String)session.getAttribute(userIDKey);
                    }
        session.setAttribute(visitCountKey,  visitCount);

        // Set response content type
```

```java
response.setContentType("text/html");
PrintWriter out = response.getWriter();

String docType= "<!doctype html public \"-//w3c//dtd html 4.0
"+"transitional//en\">\n";
out.println(docType + "<html>\n" + "<head><title>" + title + "</title></head>\n"+

"<body bgcolor = \"#f0f0f0\">\n"
                        + "<h1 align = \"center\">" + title + "</h1>\n"
                        + "<h2 align = \"center\">Gfg Session Information</h2>\n"
                        + "<table border = \"1\" align = \"center\">\n"
                        +

                        "<tr bgcolor = \"#949494\">\n"
                        + " <th>Session info</th><th>value</th>"
                        + "</tr>\n"
                        +

                        "<tr>\n"
                        + " <td>id</td>\n"
                        + " <td>" + session.getId() + "</td>"
                        + "</tr>\n"
                        +

                        "<tr>\n"
                        + " <td>Creation Time</td>\n"
                        + " <td>" + createTime + " </td>"
                        + "</tr>\n"
                        +

                        "<tr>\n"
                        + " <td>Time of Last Access</td>\n"
                        + " <td>" + lastAccessTime + "</td>"
                        + "</tr>\n"
                        +

                        "<tr>\n"
                        + " <td>User ID</td>\n"
                        + " <td>" + userID + "</td>"
                        + "</tr>\n"
                        +

                        "<tr>\n"
                        + " <td>Number of visits</td>\n"
                        + " <td>" + visitCount + "</td>"
                        + "</tr>\n"
```

```
                                    + "</table>\n"
                                    + "</body>"
                                    + "</html>");
            }
}
```
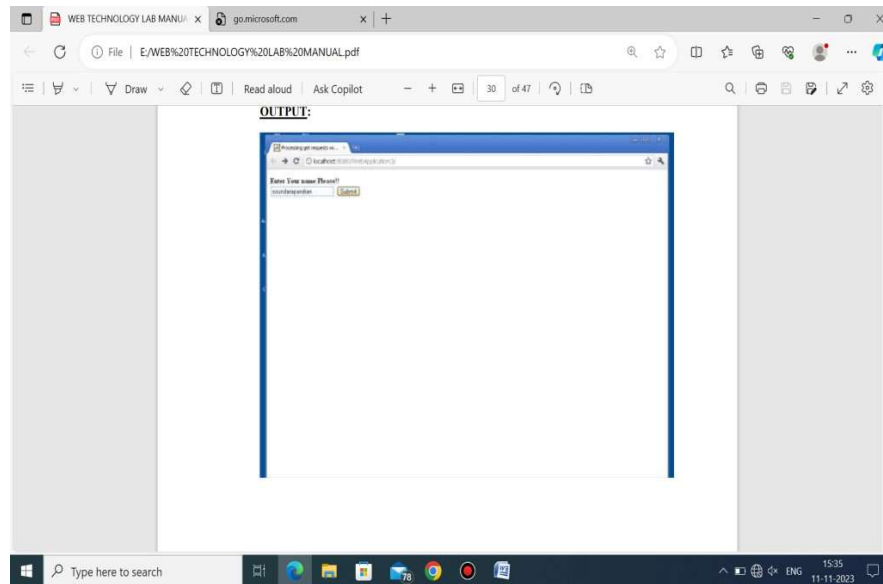
web.xml
```
<web-app>
<servlet>
<servlet-name>GfgSession</servlet-name>
<servlet-class>GfgSession</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>GfgSession</servlet-name>
<url-pattern>/GfgSession</url-pattern>
</servlet-mapping>
</web-app>
```
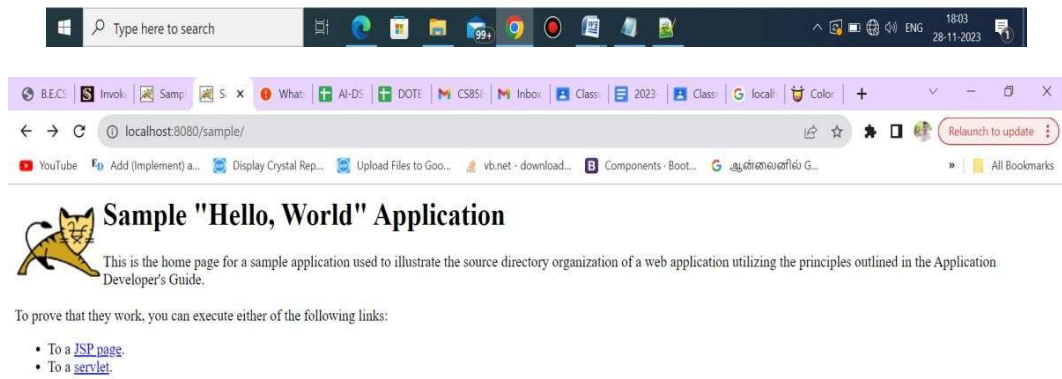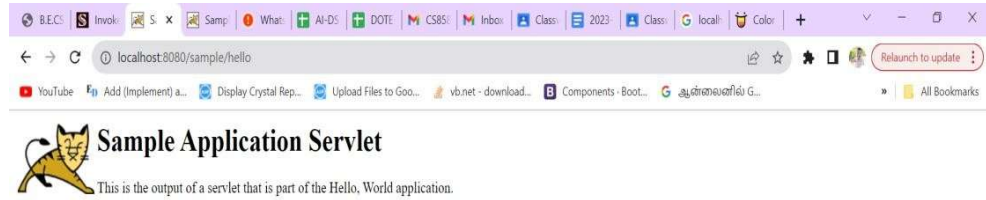
<u>OUTPUT</u>:

RESULT: Thus the invocation of servlet from HTML from has been developed successfully.

Ex No :7	**Write programs in Java to create three-tier applications using JSP and Databases**
Date:	

AIM:

To write a java servlet program to conduct online examination and to display studentmark list available in a database.

ALGORITHM:

Step1: Create a html file with form tag.
Step2: The form tag action="http://localhost:8080/example/servlet/exam".
Step3: Create a two textbox(name & seat number).
Step4: The 5 question are defined into true or false model and close the all tags.
Step5: Import the necessary packages and declare class, class name in exam.
Step6: Declare the connection, statement and result set object.
Step7: Use the deposit () for check the connection in JDBC:ODBC driver.
Step8: The data are inserting into corresponding table.
Step9: The execute update () are update the database.
Step10: Display the table in after html file compilation.

PROGRAM:

```
//index.jsp
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Welcome to Online Examination!!!!</title>
</head>
<body>
Welcome to Online Examination!!!!
<form action="exam" method="get">
<label><p> Enter Your name Please!!<br/> <input type="text"name="name"/>
<br/>
<input type="submit" name="SUBMIT"/>
</p></label>
</form>
</body>
</html>
//exam.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```java
public class exam extends HttpServlet {
protected void doGet(HttpServletRequest request, HttpServletResponseresponse)
   throws ServletException, IOException { response.setContentType("text/html");
   PrintWriter  out=response.getWriter(); String name=request.getParameter("name");
   out.println("<html>");
        out.println("<head>");
        out.println("<title>Online Examination</title>");
        out.println("</head>");
        out.println("<body bgcolor=PINK>");
        out.println("<h2 align=center>Online Examination</h2><hr>");
        out.println("<h3 align=center> Welcome Mr."+name+"</h3><hr>");
        out.println("<h4><u>Terms and Conditions:</u></h4>"); out.println("<ul
        type=disc>");
        out.println("<li>The Paper consists a set of five questions.</li>");
        out.println("<li>Every question consists of two options.</li>");
        out.println("<li>All must be answered</li></ul><hr>");
        out.println("<center><h5><u>Your Questions</u></h5></center>");
        out.println("<hr>");
        out.println("<form method=get action=exam2>");
        out.println("<p>1.Operating System is a .................</p>");
        out.println("<input type=radio name=q1 value=0>Hardware");
        out.println("<br>");
        out.println("<input type=radio name=q1
        value=1>Software");out.println("<hr>");
        out.println("<p>2.Developer of C Language is ................</p>");
        out.println("<br>");
        out.println("<input type=radio name=q2 value=0>Dennis Richee");
        out.println("<br>");
        out.println("<input type=radio name=q2 value=1>James Thompson");
        out.println("<hr>");
        out.println("<p>3.Which of the following is a multitasking,multiuser,multiprocessing);
        out.println("OS......... </p>");
        out.println("<br>");
        out.println("<input type=radio name=q3 value=0>MS DOS");out.println("<br>");
        out.println("<input type=radio name=q3 value=1>Windows NT");
        out.println("<hr>");
        out.println("<p>4.Father of Computers is ................. </p>");
        out.println("<br>");
        out.println("<input type=radio name=q4 value=1>Charles babbage");
        out.println("<br>");
        out.println("<input type=radio name=q4 value=0>Charles Dickson");
        out.println("<hr>");
        out.println("<p>5.What is the current generation of computers ?</p>");
        out.println("<br>");
        out.println("<input type=radio name=q5 value=0>Fifth");out.println("<br>");
        out.println("<input type=radio name=q5 value=1>Sixth");
```

```java
            out.println("<hr>");
            out.println("<input type=submit value=Done>");
            out.println("</form>");
            out.println("</body>");
            out.println("</html>");
    }
    public String getServletInfo() { return "A Servlet of the user";
    }
}
//exam2.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class exam2 extends HttpServlet
{
protected void doGet(HttpServletRequest request, HttpServletResponseresponse)
    throws ServletException, IOException
    {
    int count=0,j; response.setContentType("text/html");
      PrintWriter out=response.getWriter();
    String q1=request.getParameter("q1");
    String q2=request.getParameter("q2");
    String q3=request.getParameter("q3");
    String q4=request.getParameter("q4");
    String q5=request.getParameter("q5");
    if(q1.equals("1"))
      {
        count=count+1;
      }
      if(q2.equals("1"))
      {
        count=count+1;
      }
      if(q3.equals("1"))
      {
        count=count+1;
      }
      if(q4.equals("1"))
      {
        count=count+1;
      }
      if(q5.equals("1"))
```

```
      {
         count=count+1;
      }
   out.println("<html>");
   out.println("<head><title>Examination Results</title></head>");
   out.println("<body>");
   out.println("<h2 align=center<Online Examination</h2><hr>");
   out.println("<h3>Number of Questions answered correctly:</h3>"+count);if(count>=3)
      {
   out.println("<hr><h3>Congrats!!! You Have Passed!!!</h3><hr>");
   out.println("<h4><b>Try Other Tests!!</b></h4>");
      }
 else
      {
   out.println("<hr><h3>Sorry!!! You Have Failed!!!</h3><hr>");
   out.println("<h4><b>Try Again:</b></h4>");
      }
   out.println("</body>");
   out.println("</html>");
      }
public String getServletInfo() { return "A Servlet of the User";
   }
}
```

RESULT: Thus the creation of three tier application using database and JSP
has been verified successfully.

Ex No : 8	XML SCHEMA FOR STUDENT DETAILS
Date:	

To write a program for implementing student information using using XML – Schema – XSLT/XSL..

ALGORITHM:

Step1:The XML document reference to the XSL document.

Step2:The create the student information in the student tag and

insert the sameinformation about the student.

Step3:Close all opened tags.

Step4:In XSL document create a html file include the student information in

table format.Step5:Close the necessary tags.

PROGRAM:

//student.xml
```
<?xml version="1.0"?>
<?xml-stylesheet type="text/css" href="student.css"?>
<!DOCTYPE student SYSTEM "student.dtd">
<students>
<student>
<sno>801041</sno>
<sname>S.Soundarapandian</sname>
<dob>05/081991</dob>
<address>Neyveli</address>
<m1>80</m1>
<m2>90</m2>
<m3>95</m3>
</student>
<student>
<sno>801049</sno>
<sname>R.Vadivelan</sname>
<dob>22/07/1990</dob>
```

```
<address>Pondicherry</address>
<m1>90</m1>
<m2>95</m2>
<m3>80</m3>
</student>
<student>
<sno>801037</sno>
<sname>R.Satheesh</sname>
<dob>21/01/1991</dob>
<address>Kanyakumari</address>
<m1>80</m1>
<m2>90</m2>
<m3>95</m3>
</student>
</students>
```

//student.css
```
Student {
background.color:#aabbcc;width:100%;}
Sno { display:block; color:GREEN;
font.size:25pt; } Sname { display:block;
color:BLACK; font.size:20pt; }Dob {
display:block; color:BLUE; font.size:15pt; }
Address { display:block; color:BLUE;
font.size:15pt; }m1 { display:block;
color:BLUE; font.size:15pt; }
m2 { display:block; color:BLUE;
font.size:15pt; }m3 { display:block;
color:BLUE; font.size:15pt;}
```

//student.dtd`
```
<?xml version="1.0"?>
<!ELEMENT students (student+)>
<!ELEMENT student (sno,sname,dob,address,m1,m2,m3)>
<!ELEMENT sno (#PCDATA)>
<!ELEMENT sname (#PCDATA)>
<!ELEMENT dob (#PCDATA)>
<!ELEMENT address (#PCDATA)>
<!ELEMENT m1 (#PCDATA)>
<!ELEMENT m2 (#PCDATA)>
<!ELEMENT m3 (#PCDATA)>
```
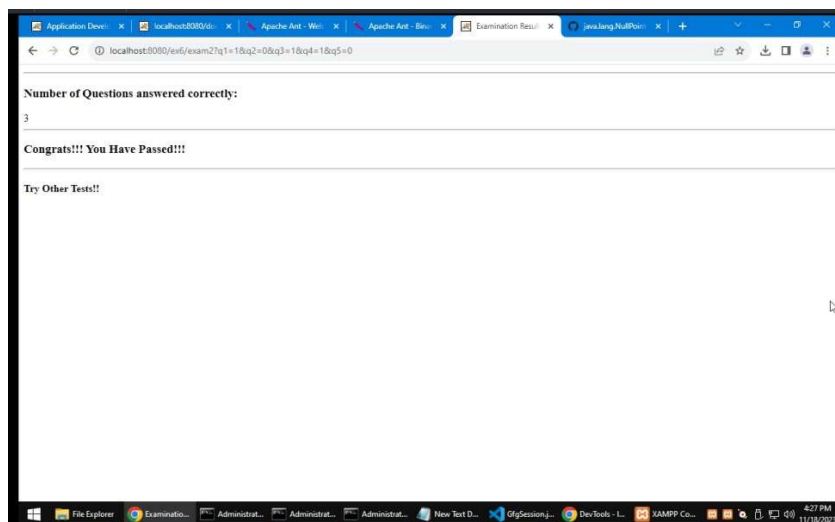
OUTPUT:
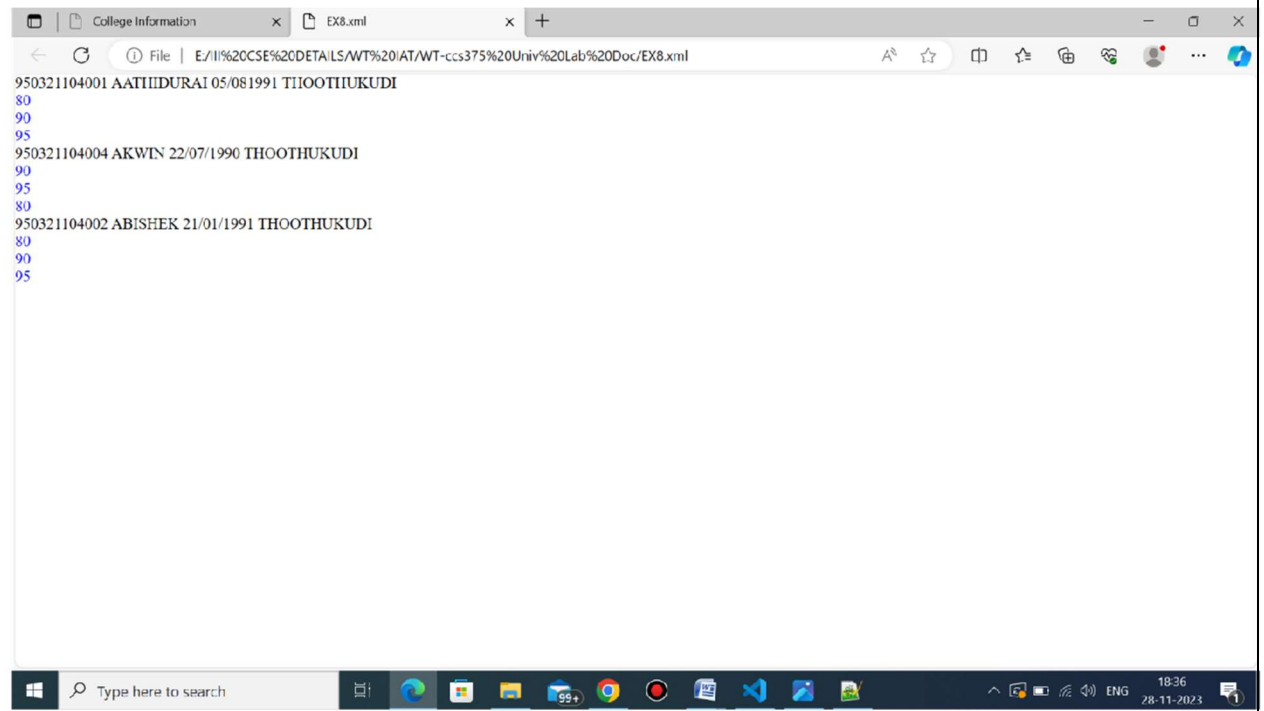
RESULT: Thus the creation of XSL document using Xml has been verified successfully.

EX 7 OUTPUT:

Gfg Session Information

Session info	value
id	CF70BFEDA6483BFF880DBAD09E595290
Creation Time	Sat Nov 18 16:26:58 PST 2023
Time of Last Access	Sat Nov 18 16:26:58 PST 2023
User ID	GFG
Number of visits	1

Welcome Mr.rusbunnin

Terms and Conditions:

- The Paper consists a set of five questions.
- Every question consists of two options.
- All must be answered

Your Questions

1.Operating System is a

○ Hardware
○ Software

2.Developer of C Language is

○ Dennis Richee
○ James Thompson

3.Which of the following is a multitasking,multi user,multiprocessing OS.

○ MS DOS
○ Windows NT

4.Father of Computers is

○ Charles babbage