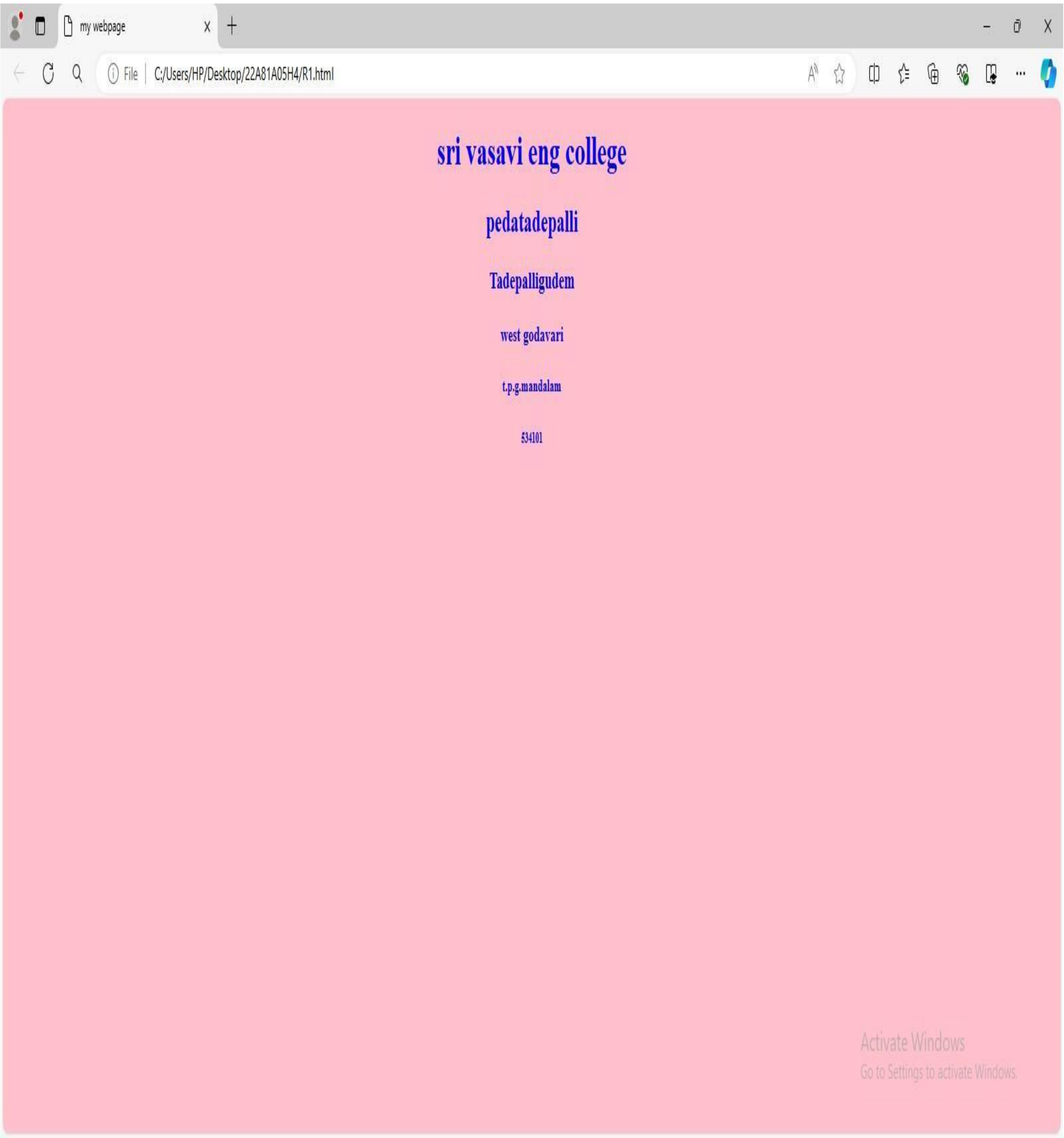
Output:



my webpage

C:/Users/HP/Desktop/22A81A05H4/R1.html

sri vasavi eng college

pedatadepalli

Tadepalligudem

west godavari

t.p.g.mandalam

534101

Activate Windows
Go to Settings to activate Windows.

EXERCISE-1
Design HTML Fundamentals constructs

i) Headings:

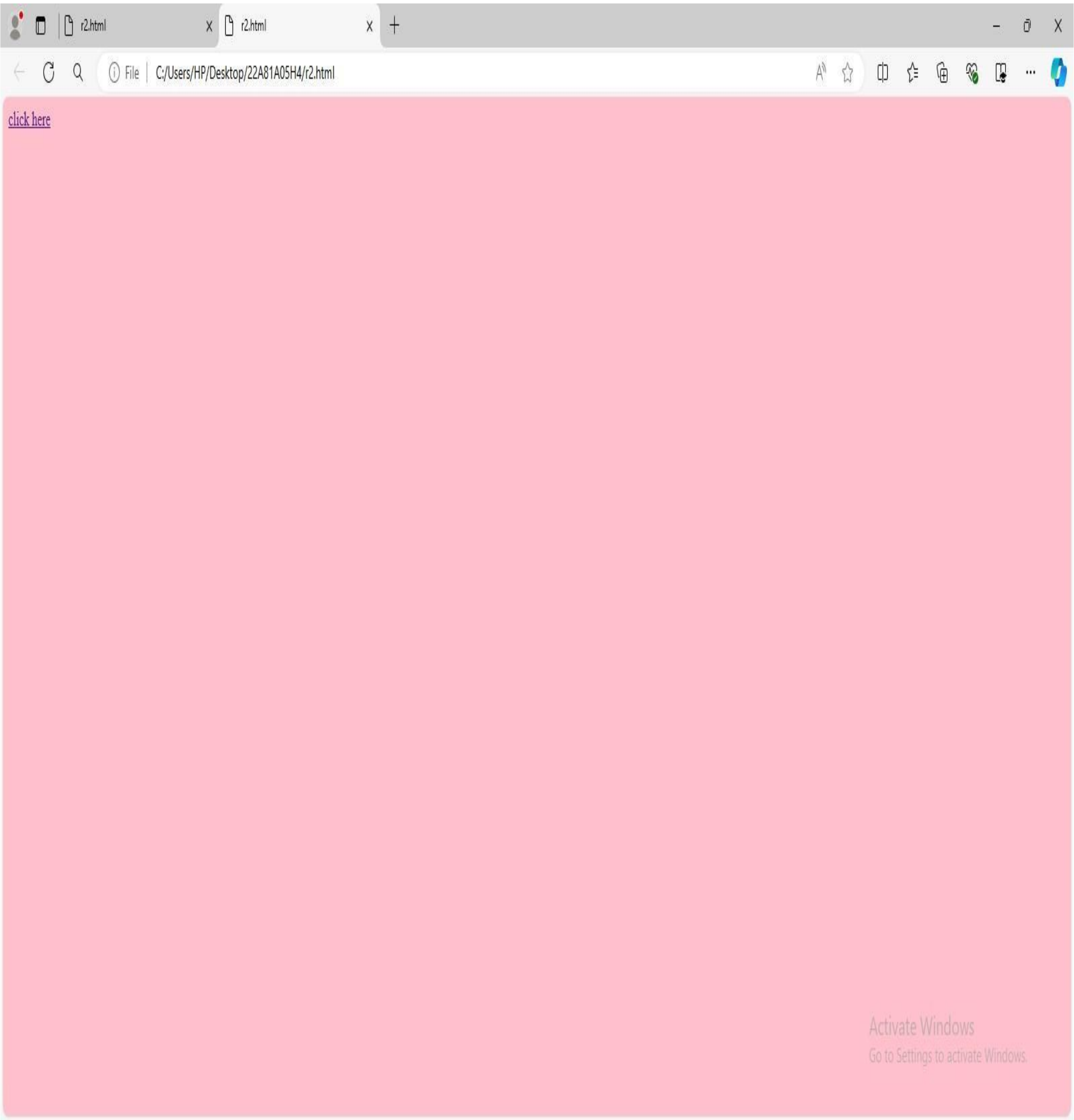
Aim: Write a HTML program with use of Headings(<h1>,<h2>,<h3>,<h4>,<h5>,<h6>)

Description:HTML headings are titles or subtitles that you want to display on a webpage.

Code:

```
<!DOCTYPEhtml>
<html>
<head>
<title>MyWebpage</title>
</head>
<bodybgcolor=”pink”text=”blue”>
<h1align=center>WelcomeTo</h1>
<h2align=center>Srivasaviengineeringcollege</h2>
<h3align=center>Tadepalligudem</h3>
<h4align=center>pedatadepalli</h4>
<h5align=center>WestGodavari</h5>
<h6align=center>AndhraPradesh</h6>
</body>
</html>
```

Output:


r2.html
r2.html
File
C:/Users/HP/Desktop/22A81A05H4/r2.html
click here
Activate Windows
Go to Settings to activate Windows.

i)**Links:**

Aim: WriteaHTMLprogramwiththeuseof<a>(anchor)tag.

Link: The <a> tag defines a hyperlink, which is used to link from one page to another.Themostimportantattributeofthe<a>elementisthehrefattribute,which indicates the link's destination.

Syntax:

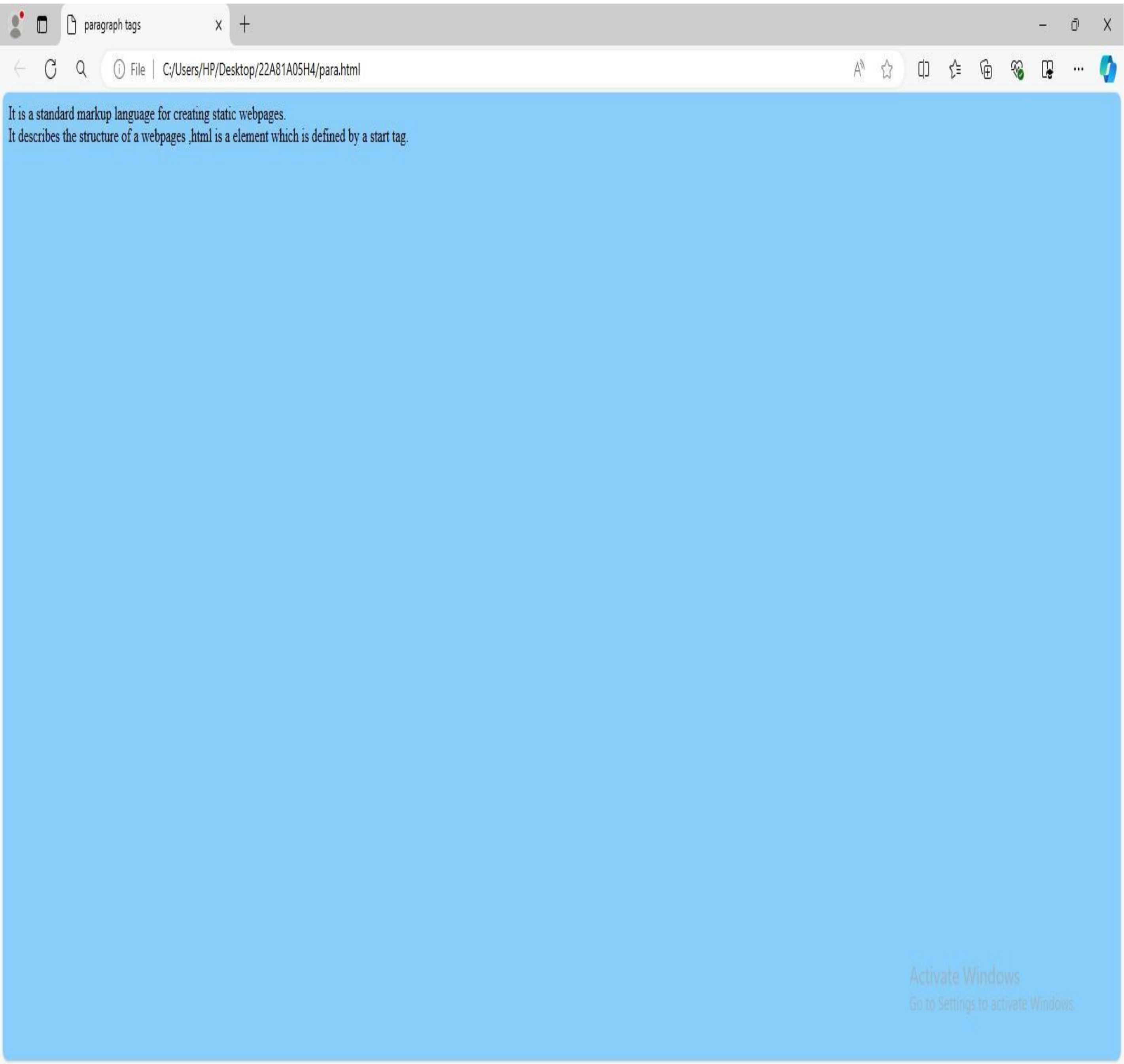
```
<ahref="URL" target="_self/_blank/_parent/_top/framename">
                Link Text
</a>
```

hrefattributeofHTMLanchortag Thehrefattributeisusedtodefinetheaddressof the file to be linked. In other words, it points out the destination page.

Code:

```
<html>

<head>

</head>

<body>

        <ahref=https://www.w3schools.com/html/html_images.asp>clickhere</a>

</body>

</html>
```

Output:



It is a standard markup language for creating static webpages.
It describes the structure of a webpages ,html is a element which is defined by a start tag.

ii) Paragraphs:

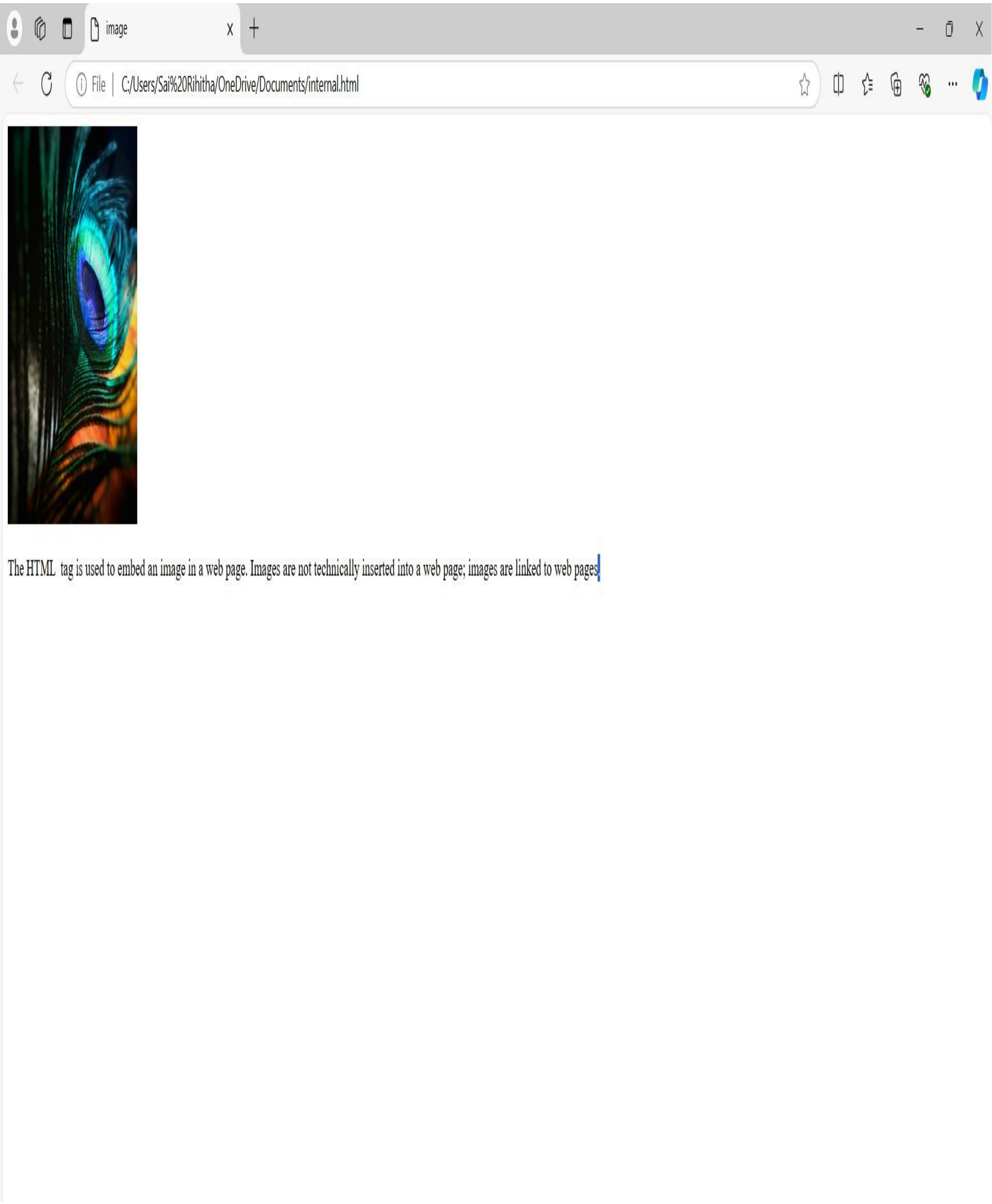
Aim: WriteaHTMLprogramwiththeuseof<p> (paragraph)tag.

Description: TheHTML<p>elementdefinesaparagraph.Aparagraphalwaysstarts on a new line, and browsers automatically add some white space (a margin) before and after a paragraph.

Code:

```
<html>

<head>

        <title>paragraphtags</title>

</head>

<body>

<p>

Itisastandardmarkuplanguageforcreatingstaticwebpages.

<br>

Itdescribesthestructureofawebpages,htmlisaelementwhichisdefinedbyastart tag.

</body>

</html>
```

Output:



The HTML tag is used to embed an image in a web page. Images are not technically inserted into a web page; images are linked to web pages

iii) Images:

Aim: WriteaHTMLprogramwiththeuseof<img>(image)tag.

Description: The<img>tagisusedtoembedanimageinanHTMLpage.Imagesarenot technically inserted into a web page; images are linked to web pages. The <img> tag creates aholding space for the referenced image.

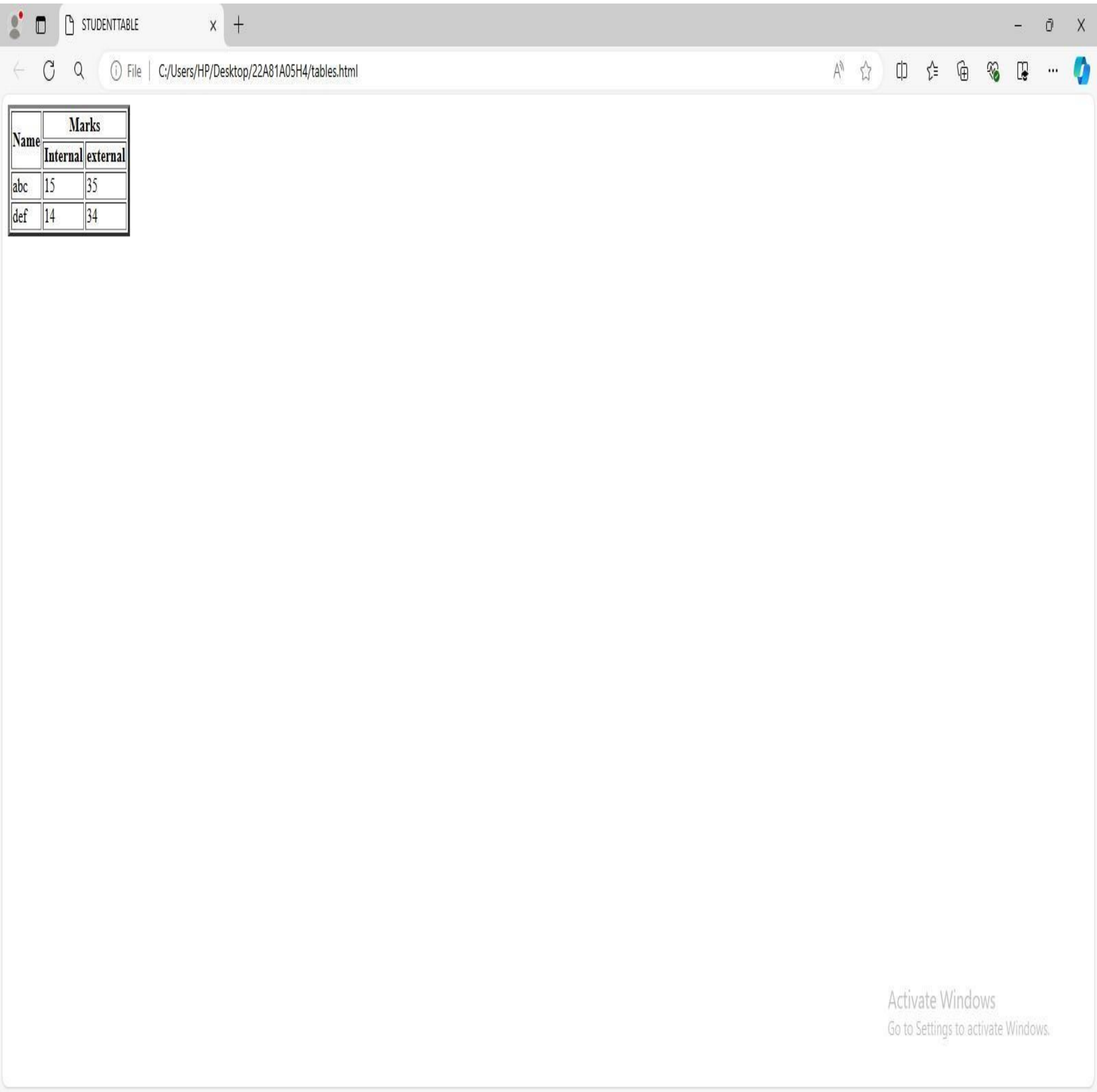
The<img>taghastworequiredattributes:

- src-Specifiesthepathtotheimage
- alt - Specifies an alternate text for the image, if the image for some reason cannot bedisplayed

Code:

```
<!DOCTYPEhtml>

<html lang="en">

<head>

<title>image</title>

</head>

<body>

<img

src="https://images.pexels.com/photos/674010/pexels-photo-

674010.jpeg?cs=srgb&dl=pexels-anjana-c-169994-

674010.jpg&fm=jpg"alt="image"width="200px" heigth="200px">

<p>TheHTML<img>tagisusedtoembedanimageinawebpage.Imagesarenot technically

inserted into a web page; images are linked to web pages.</p>

</body>

</html>
```

Output:


STUDENTTABLE
File
C:/Users/HP/Desktop/22A81A05H4/tables.html
Activate Windows
Go to Settings to activate Windows.

Name	Marks	
	Internal	external
abc	15	35
def	14	34

V)Tables:

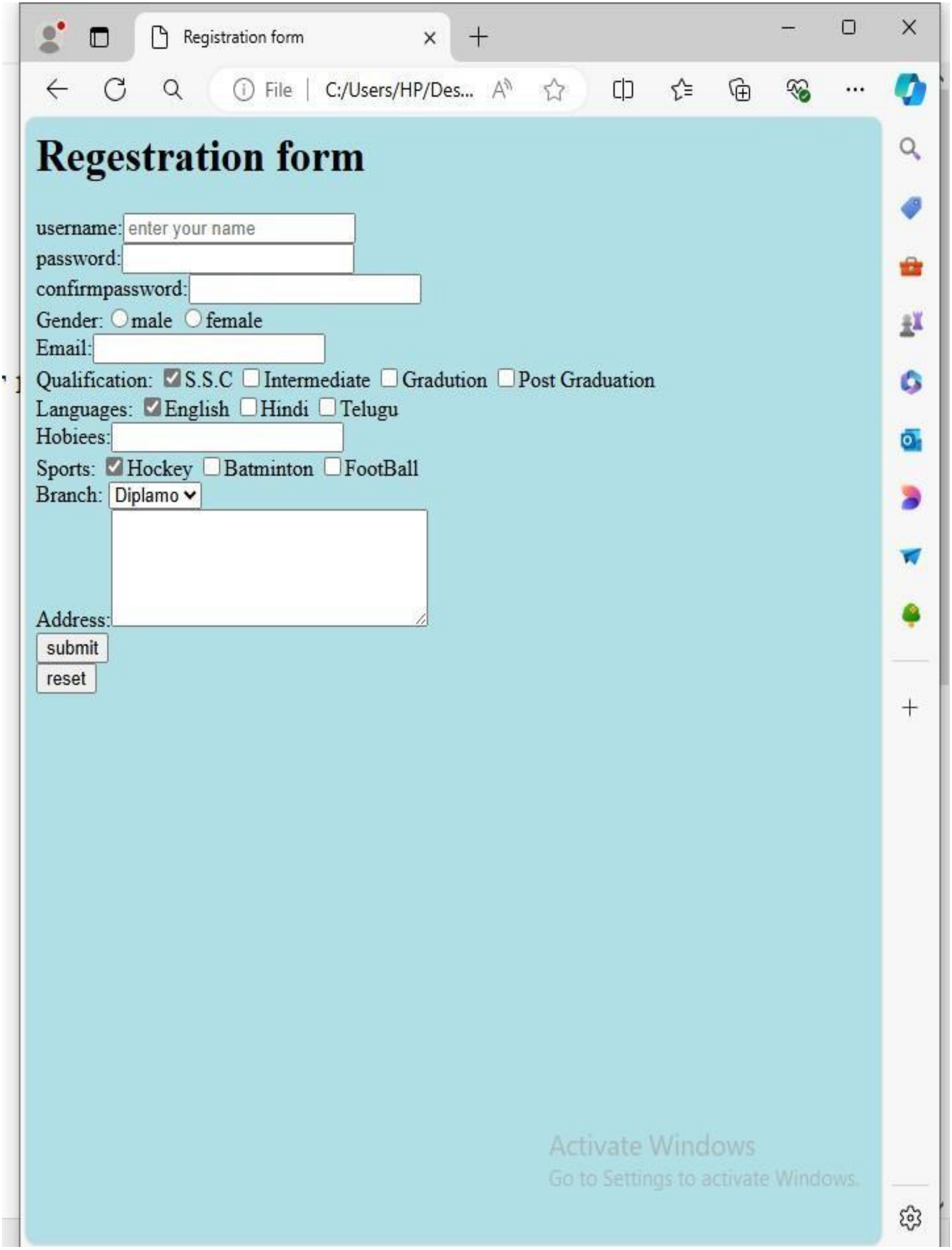
Aim: WriteaHTMLprogramwiththeuseof<table>(table)tag.

Description: The<table>tagdefinesanHTMLtable.AnHTMLtableconsistsofone <table> element and one or more <tr>, <th>, and <td> elements. The <tr> element definesatablerow,the<th>elementdefinesatableheader,andthe<td>element defines a table cell.

Code:

```
<!DOCTYPEhtml>

<html>

<head>

        <title>STUDENTTABLE</title>

</head>

<body>

        <tableborder="3">

        <tr><throwspan=2>Name</th><thcolspan=2>Marks</th></tr>

        <tr><th>Internal</th><th>external</th></tr>

        <tr><td>abc</td><td>15</td><td>35</td></tr>

        <tr><td>def</td><td>14</td><td>34</td></tr>

        </table>

</body>

</html>
```

Output:



Regestration form

username: enter your name

password:

confirmpassword:

Gender: ○ male ○ female

Email:

Qualification: ☑ S.S.C □ Intermediate □ Gradution □ Post Graduation

Languages: ☑ English □ Hindi □ Telugu

Hobiees:

Sports: ☑ Hockey □ Batminton □ FootBall

Branch: Diplamo

Address:

submit

reset

EXERCISE-2

Design the html fundamentals concepts

a)Forms:

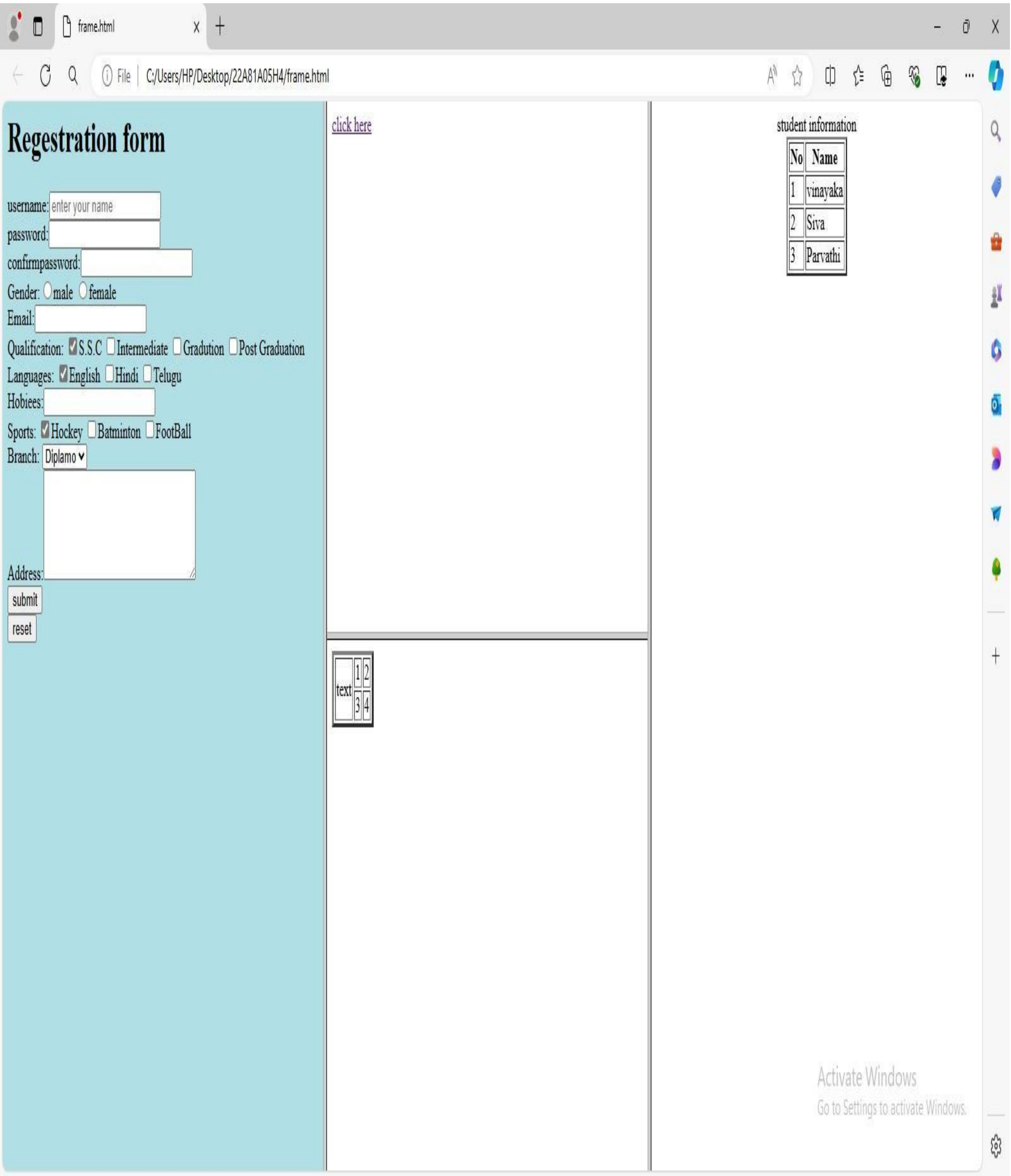
Aim: Write a HTML program to design Frames.

Description:HTML frames are used to divide your browser window into multiple sections where each section can load a separate HTML document. A collection of framesinthebrowserwindowisknownasaframeset.Thewindowisdividedinto frames in a similar way the tables are organized: into rows and columns.

Code:

```
<html>
<head>
<title>Registrationform</title>
</head>
<body bgcolor="powderblue">
<form>
<h1>Regestrationform</h1>
username:<inputtype="text"maxlength=15size=20placeholder="enteryourname">
<br>password:<inputtype="password"maxlength=15size=20>
<br>Confirmpassword:<inputtype="password"maxlength=15size=20>
<br>Gender:<inputtype="radio"name="a"/>male
<inputtype="radio"name="a"/>female
<br>Email:<inputtype="text"maxlength=15>
<br>Qualification:<inputtype="checkbox"checked="true">S.S.C
<inputtype="checkbox">Intermediate
<inputtype="checkbox">Gradution
<inputtype="checkbox">PostGraduation
<br>Languages:<inputtype="checkbox"checked="true">English
<inputtype="checkbox">Hindi
<inputtype="checkbox">Telugu
<br>Hobiees:<inputtype="text"maxlength=15><br>Sports:
<inputtype="checkbox"checked="true">Hockey
<inputtype="checkbox">Batminton
<inputtype="checkbox">FootBall
<br>Branch:
<select><option>Diplamo<option>CSE<option>ECE<option>EEE</select>
<br>Address:<textarearows=5cols=30></textarea></br>
<inputtype="submit"value="submit">
<br><inputtype="reset"value="reset">
</form>
</body>
</html>
```

Output:



Regestration form

username: enter your name
password:
confirmpassword:
Gender: ○male ○female
Email:
Qualification: ☑S.S.C □Intermediate □Gradution □Post Graduation
Languages: ☑English □Hindi □Telugu
Hobiees:
Sports: ☑Hockey □Batminton □FootBall
Branch: Diplamo
Address:

submit

reset

click here

text	1	2
	3	4

student information

No	Name
1	vinayaka
2	Siva
3	Parvathi

b) Frames:

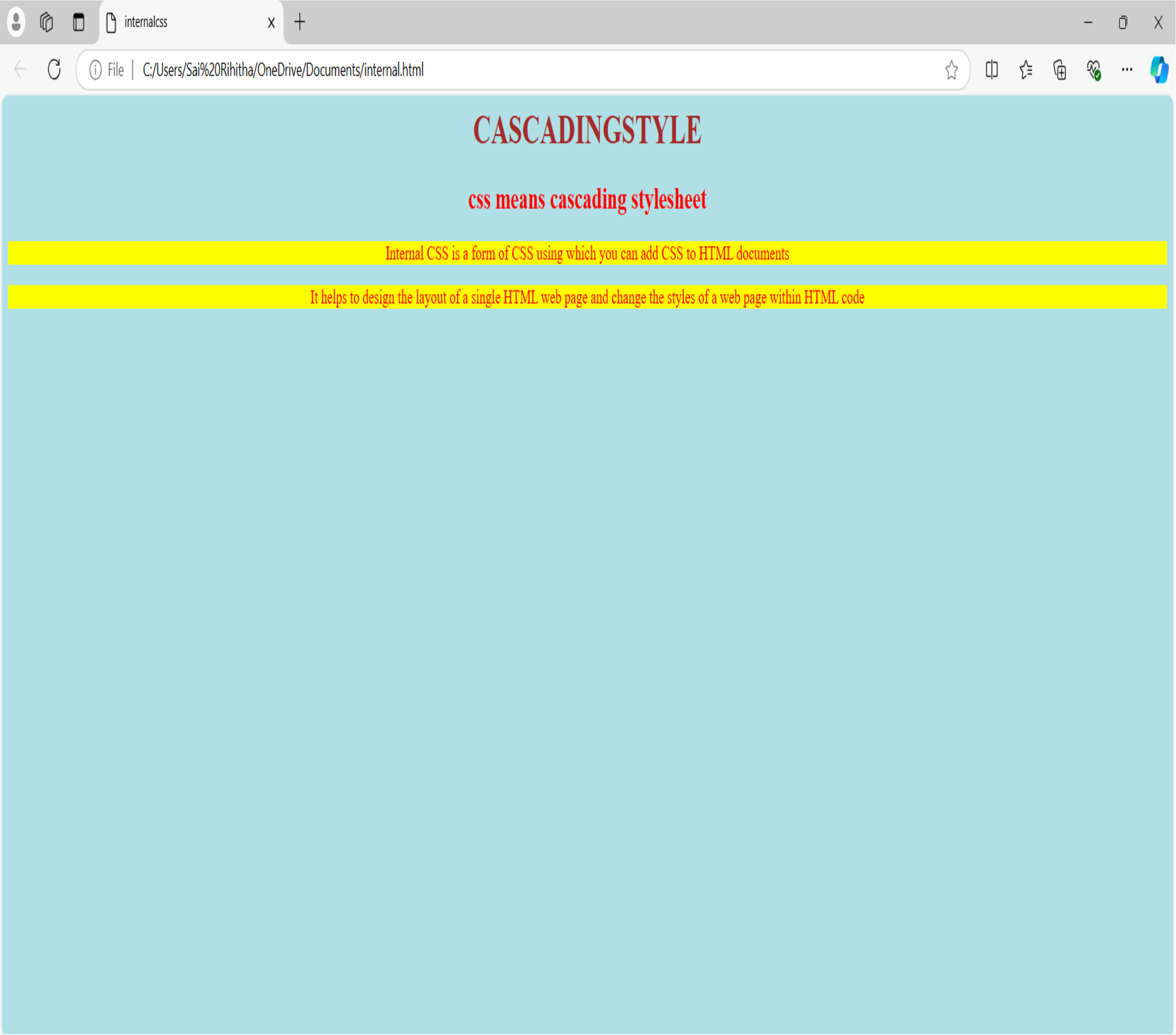
Aim: WriteaHTMLprogramtodesignFormsandHTMLconstructs.

Description: <form>isaHTMLelementtocollectinputdatawithcontaininginteractive controls. It provides facilities to input text, number, values, email, password, and control fields such as checkboxes, radio buttons, submit buttons, etc., or in other words, form is a container that contains input elements like text, email, number, radio buttons, checkboxes, submit buttons, etc. Forms are generally used when you want to collect data from the user.

Code:

```
<html>
<framesetcols="33%,33%,34%">
<framesrc="C:\Users\HP\Desktop\22A81A05H4\forms.html">
<framesetrows="50%,*1">
<framesrc="C:\Users\HP\Desktop\22A81A05H4\r2.html">
<framesrc="C:\Users\HP\Desktop\22A81A05H4\rowspan.html">
</frameset>
<framesrc="C:\Users\HP\Desktop\22A81A05H4\table.html">
</frameset>
</html>
```

Output:



internalcss
File | C:/Users/Sai%20Rihitha/OneDrive/Documents/internal.html

CASCADINGSTYLE

css means cascading stylesheet

Internal CSS is a form of CSS using which you can add CSS to HTML documents

It helps to design the layout of a single HTML web page and change the styles of a web page within HTML code

EXERCISE-3

Design Cascading Stylesheets

i) **Internalcss:**

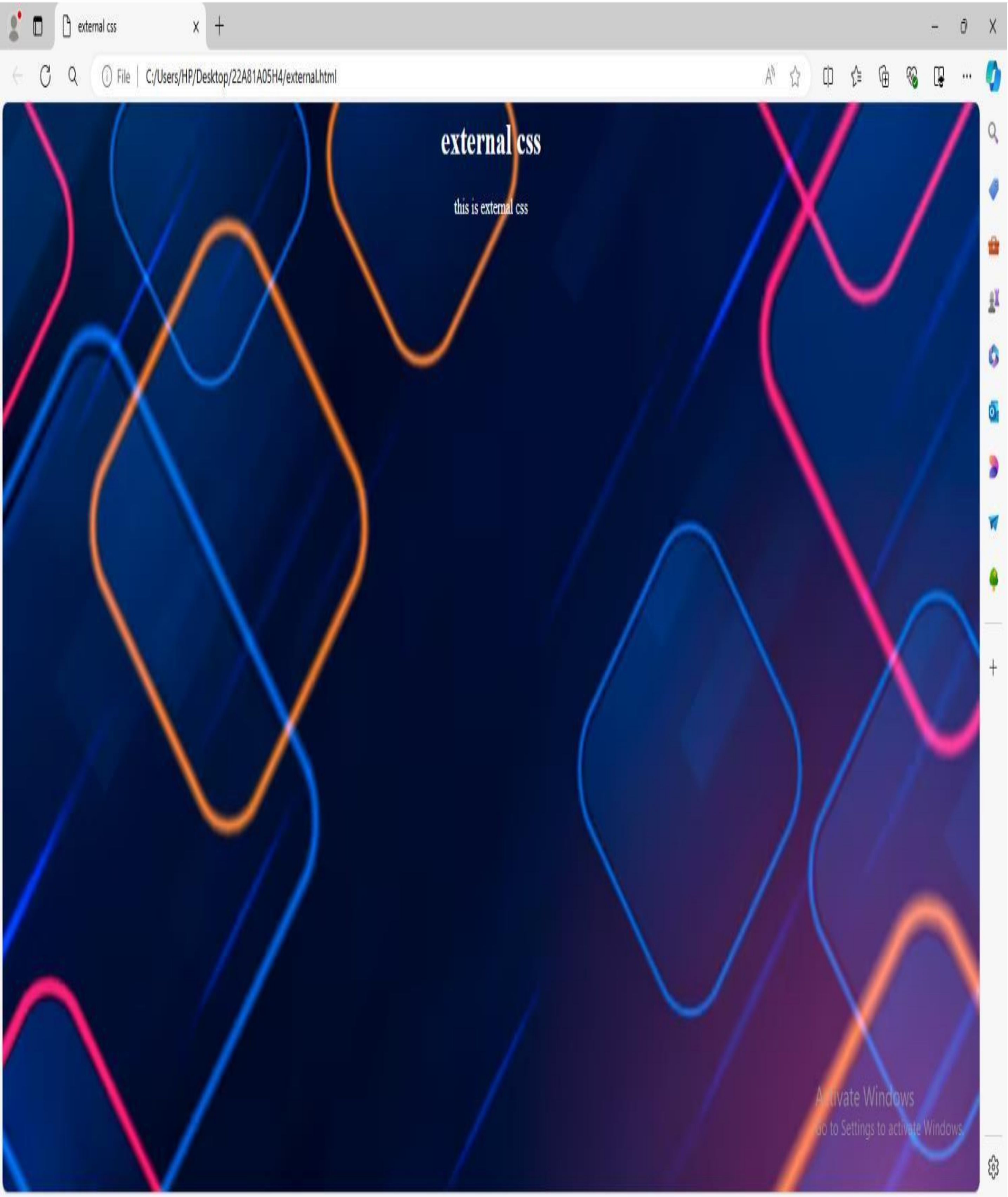
Aim: WriteacodetodesignanINTERNALCSS.

Description: AninternalCSSisusedtodefineastyleforasingleHTMLpage.Aninternal CSS is defined in the <head> section of an HTML page, within a <style> element.

Code:

```
<html lang="en">
<head>
<title>internalcss</title>
<style>p{
color:red;
background-color:yellow;
}
h1{
color:Brown;
}
body{
text-align:center;
background-color:powderblue;
}
h2{
color:Red;
}
</style>
</head>
<body>
<h1>CASCADINGSTYLE</h1>
<h2>cssmeanscascadingstylesheet</h2>
<p>Internal CSS is a form of CSS using which you can add CSS to HTML
documents</p><p>Ithelpstodesignthelayoutofasingle HTMLwebpageandchange the
styles of a web page within HTML code</p>
</body>
</html>
```

Output:



external css
C:/Users/HP/Desktop/22A81A05H4/external.html
File
Activate Windows
Go to Settings to activate Windows.

external css

this is external css

ii) Externalcss:

Aim: WriteacodetodesignanEXTERNALCSS.

Description: Withanexternalstylesheet,youcanchangethelookofanentire website by changing just one file. Each HTML page must include a reference to the external style sheetfile inside the <link> element, inside the head section.

Code:

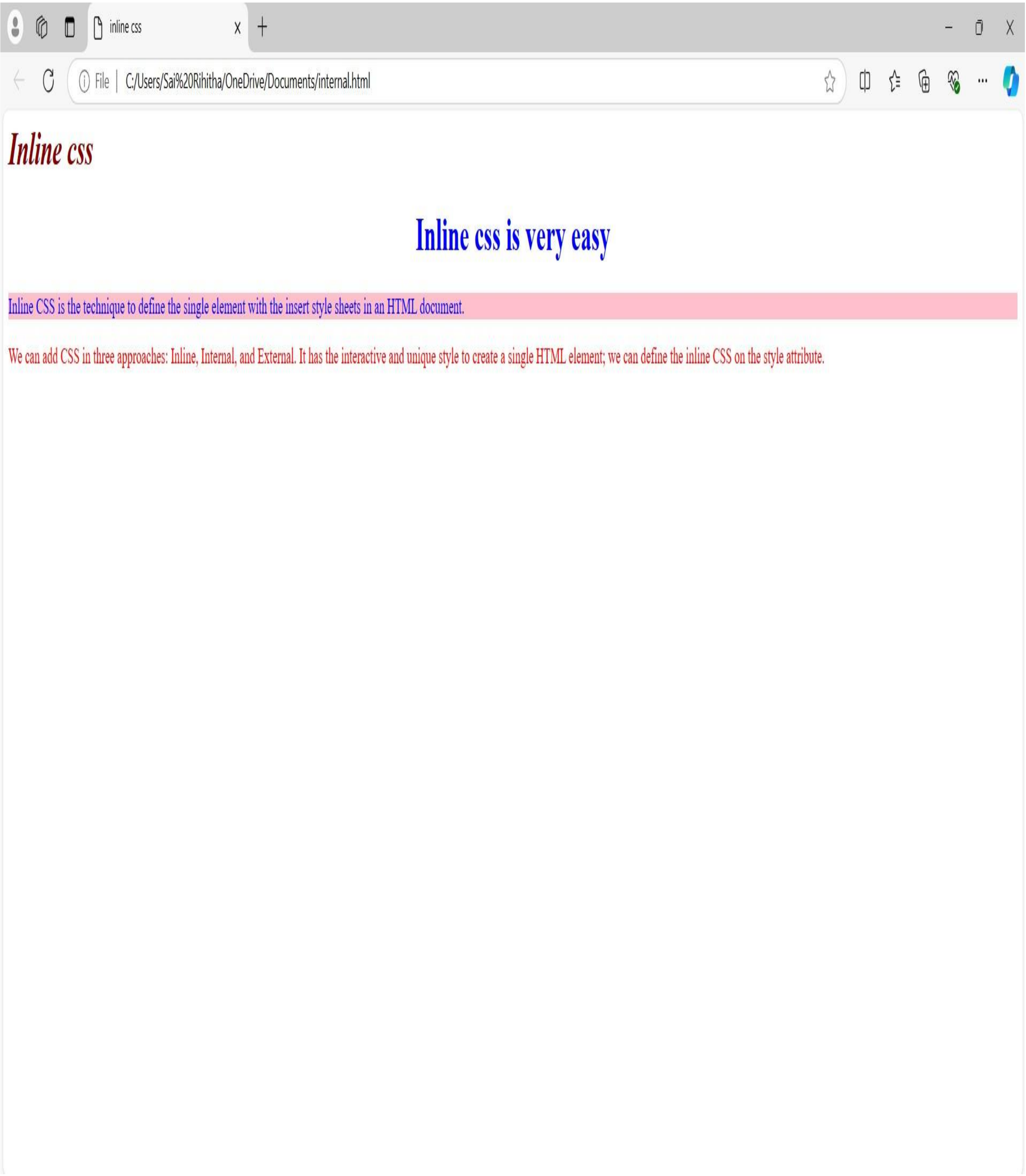
external.css

```
.main{
color:white;
text-align:center;
}
body{
background-image:url(https://img.freepik.com/free-vector/realistic-neon-lights-
background_23- 2148907367.jpg);
background-size:cover;
background-attachment:fixed;
}
```

External.html:

```
<html>
<head>
<title>externalcss</title>
<linkrel="stylesheet"href="external.css">
</head>
<body>
<divclass=main>
<h1>externalcss</h1>
<p>thisisexternalcss</p>
</body>
</html>
```

Output:



Inline css

Inline css is very easy

Inline CSS is the technique to define the single element with the insert style sheets in an HTML document.

We can add CSS in three approaches: Inline, Internal, and External. It has the interactive and unique style to create a single HTML element; we can define the inline CSS on the style attribute.

ii) Inlinecss:

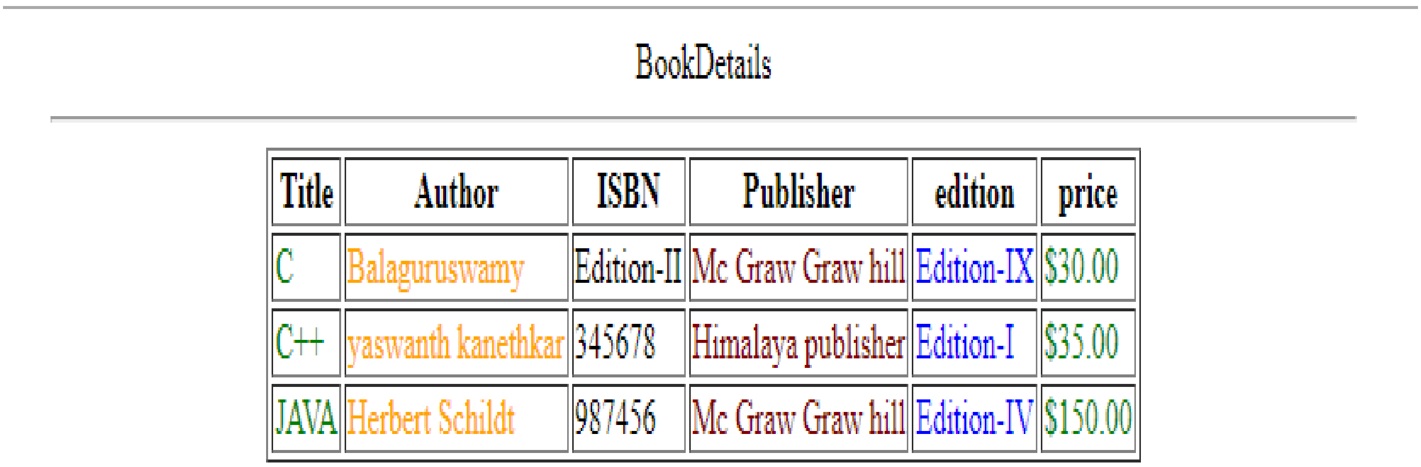
Aim: WriteacodetodesignanINLINECSS.

Description: An inlinestylemay beused to apply a uniquestylefor asingleelement.To useinlinestyles,addthestyleattributetotherelevantelement.Thestyleattributecan contain any CSS property.

Code:

```
<html>
<head>
<title>inlinecss</title>
</head>
<body>
<h1style="color:maroon;text-transformation;font-style:italic">Inlinecss</h1>
<h1style="color:blue;text-align:center;">Inlinecssisveryeasy</h1>
<pstyle="color:blue;background-color:pink"> InlineCSSisthetechniquetodefinethe single
element with the insert style sheets in an HTML document.</p>
<p style="color:red;"> We can add CSS in three approaches: Inline, Internal, and
External.IthastheinteractiveanduniquestyletocreateasingleHTMLelement;we can
define the inline CSS on the style attribute. </p>
</body>
</html>
```

Output:



BookDetails

Title	Author	ISBN	Publisher	edition	price
C	Balaguruswamy	Edition-II	Mc Graw Graw hill	Edition-IX	$30.00
C++	yaswanth kanethkar	345678	Himalaya publisher	Edition-I	$35.00
JAVA	Herbert Schildt	987456	Mc Graw Graw hill	Edition-IV	$150.00

EXERCISE-4

Write an XML file which will display the book information which includes the following:i)Titleofthebookii)AuthorNameiii)ISBNnumberiv)Publishername v)Edition vi)price

Aim: Program to display Book information using XMLfile.

Description:

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.

Syntax:<?xmlversion="1.0"encoding="UTF-8"?>
<!DOCTYPERoot-elementSYSTEM"Root-element.dtd">

DTD:DTD stands for Document Type Definition.A DTD defines the structureandthe legal elements and attributes of an XML document.

Syntax:<!DOCTYPEroot-element[elementdeclaration]>

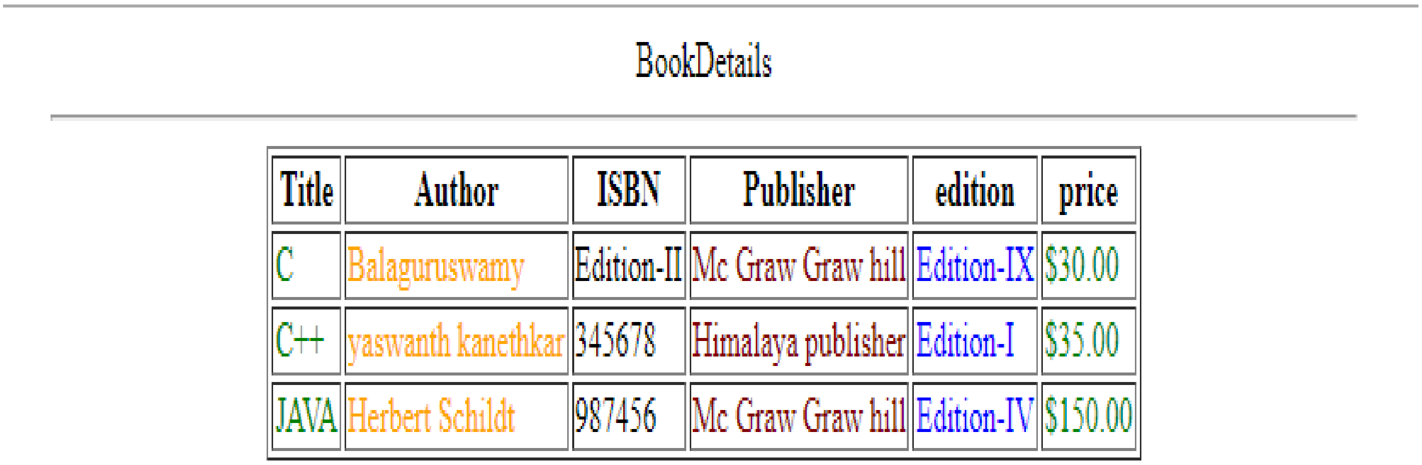
Code:

Book.xml

```
<?xmlversion="1.0"?>
<!DOCTYPEbookdetailsSYSTEM"book.dtd">
<?xml-stylesheettype="text/xsl"href="book.xsl"?>
<bookdetails>
<book>
<title>C</title>
<author>Balaguruswamy</author>
<isbn>Edition-II</isbn>
<publisher>McGrawGrawhill</publisher>
<edition>Edition-IX</edition>
<price>$30.00</price>
</book>
<book>
<title>C++</title>
<author>yaswanthkanethkar</author>
<isbn>345678</isbn>
<publisher>Himalayapublisher</publisher>
<edition>Edition-I</edition>
<price>$35.00</price>
</book>
<book>
<title>JAVA</title>
<author>HerbertSchildt</author>
<isbn>987456</isbn>
<publisher>McGrawGrawhill</publisher>
<edition>Edition-IV</edition>
<price>$150.00</price>
</book>
```

```
</bookdetails>Book.dtd
:
<!Elementbookdetails(book+)>
<!Elementbook(title,author,isbn,publisher,edition,price)>
<!Elementtitle(#PCDATA)>
<!Elementauthor(#PCDATA)>
<!Elementisbn(#PCDATA)>
<!Elementpublisher(#PCDATA)>
<!Elementedition(#PCDATA)>
<!Elementprice(#PCDATA)>Bo
ok.xsl:
<?xmlversion="1.0"encoding="UTF-8"?>
<xsl:stylesheetversion="1.0"xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:templatematch="/">
<html>
<head><center>BookDetails</center></head>
<body>
<hrwidth="50%"/>
<tableborder="1"align="center">
<tr>
<th>Title</th><th>Author</th><th>ISBN</th><th>Publisher</th><th>edition</th>
<th>price</th></tr>
<xsl:for-eachselect="bookdetails/book">
<tr>
<tdstyle="color:green;font-weight:bpld;align=center;"><xsl:value-of
select="title"/></td>
<tdstyle="color:orange;font-weight:bpld;align=center;"><xsl:value-of
select="author"/></td>
<tdstyle="color:voilet;font-weight:bpld;align=center;"><xsl:value-of
select="isbn"/></td>
<tdstyle="color:maroon;font-weight:bpld;align=center;"><xsl:value-of
select="publisher"/></td>
<tdstyle="color:blue;font-weight:bpld;align=center;"><xsl:value-of
select="edition"/></td>
<tdstyle="color:green;font-weight:bpld;align=center;"><xsl:value-of
select="price"/></td>
</tr>
</xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Output:



BookDetails

Title	Author	ISBN	Publisher	edition	price
C	Balaguruswamy	Edition-II	Mc Graw Graw hill	Edition-IX	$30.00
C++	yaswanth kanethkar	345678	Himalaya publisher	Edition-I	$35.00
JAVA	Herbert Schildt	987456	Mc Graw Graw hill	Edition-IV	$150.00

b)Write a XML schema definition(XSD)

Aim: Program to display book information using XSD.

Description:

XSD:XML schema definition is commonly known as XSD to describe the XML language to check the validity or structure and vocabulary of the XML document against the dramatical rules of the appropriate XML language.

Code:

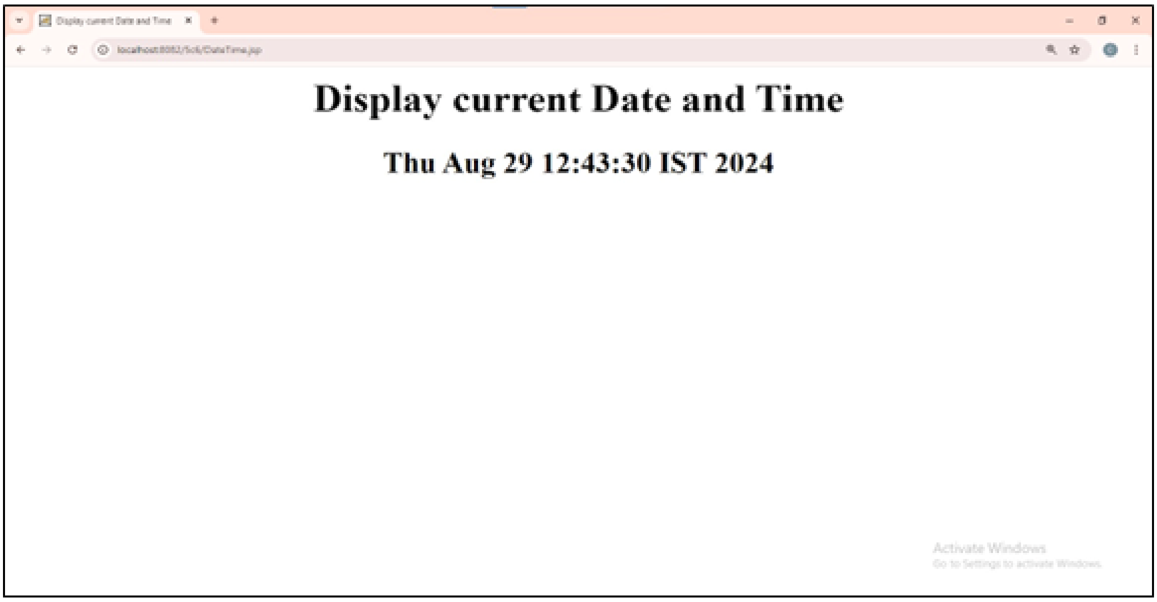
Book_xsd.xml:

```
<?xmlversion="1.0"encoding="UTF-8"?>
<bookdetails
xmlns="http://www.w3schools.com"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="book1.xsd">
<book>
<title>C</title>
<author>Balaguruswamy</author>
<isbn>Edition-II</isbn>
<publisher>McGrawGrawhill</publisher>
<edition>Edition-IX</edition>
<price>$30.00</price>
</book>
<book>
<title>C++</title>
<author>yaswanthkanethkar</author>
<isbn>345678</isbn>
<publisher>Himalayapublisher</publisher>
<edition>Edition-I</edition>
<price>$35.00</price>
</book>
<book>
<title>JAVA</title>
<author>HerbertSchildt</author>
<isbn>987456</isbn>
<publisher>McGrawGrawhill</publisher>
<edition>Edition-IV</edition>
<price>$150.00</price>
</book>
</bookdetails>
```

Book1.xsd:

```
<?xmlversion="1.0?>
<xs:schemaxmlns:xs="http://www.w3.org/2001/XMLSchema>
<xs:elementname="bookdetails">
<xs:complexType>
<xs:sequence>
<xs:elementname="book"maxoccurs="unbounded"minoccurs="0">
<xs:complexType>
<xs:sequence>
<xs:elementname="title"type="xs:string"/>
<xs:elementname="author"type="xs:string"/>
<xs:elementname="isbn"type="xs:int"/>
<xs:elementname="publisher"type="xs:string"/>
<xs:elementname="edition"type="xs:string"/>
<xs:elementname="price"type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>
```

Output:


Display current Date and Time
localhost:8082/5c6/DateTime.jsp
Activate Windows
Go to Settings to activate Windows.

Display current Date and Time

Thu Aug 29 12:43:30 IST 2024

EXERCISE-5

Create a simple JSP to print the current Date and Time.

Aim: To CreateasimpleJSPtoprintthecurrentDateandTime.

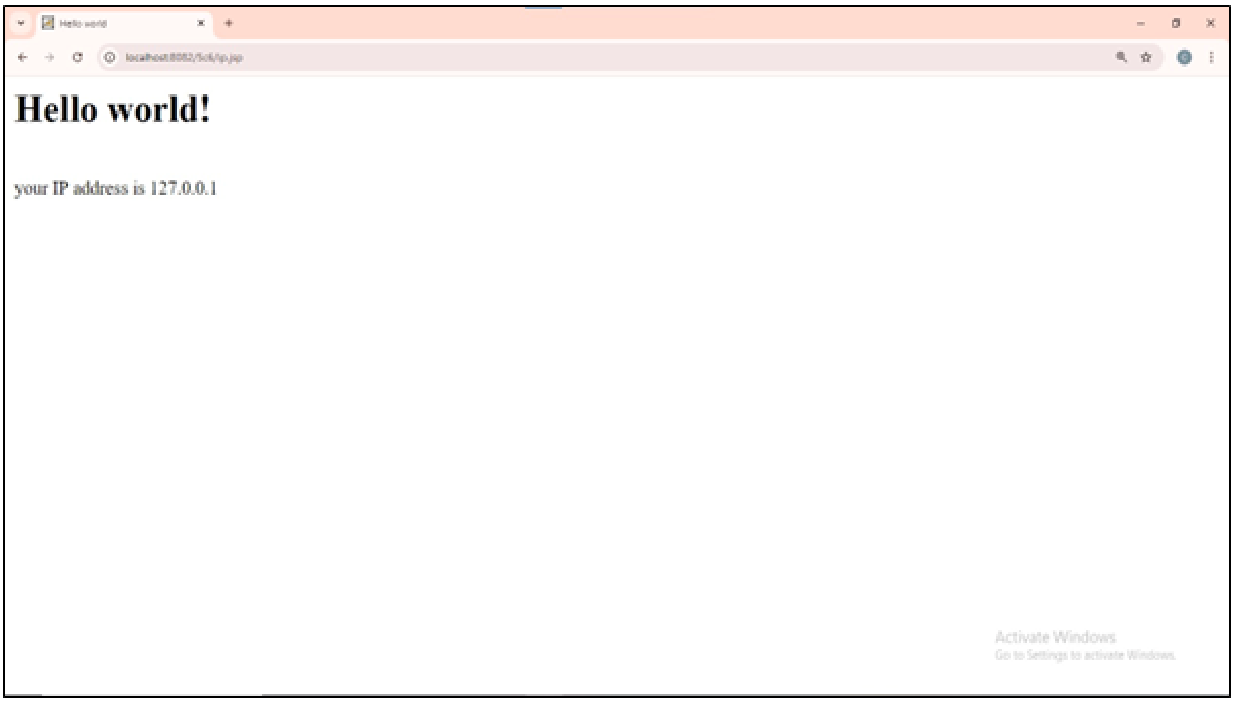
Description:

- **new Date():** This creates an instance of the Date class, which represents the current date and time based on the system clock.
- **out.print():** This outputs the string representation of the date to the web page, allowing the current date and time to be displayed within the HTML content.

Code:

```
<%@ page import="java.io.*,java.util.*,javax.servlet.*"%>

<html>

<head>

<title>Display Current Date and Time </title>

</head>

<body>

<center>

<h1> Display Current Date and Time</h1>

</center>

<%

Date date=new Date();

out.print("<h2 align=\"center\">"+date.toString()+"</h2>");

%>

</body>

</html>
```

Output:


Hello world
localhost:8082/5c6/ip.jsp
Activate Windows
Go to Settings to activate Windows.

Hello world!

your IP address is 127.0.0.1

EXERCISE-6

a)Create a simple JSP to display current IP-Address of the System

Aim: To createasimpleJSPtodisplaycurrentIP-Address oftheSystem

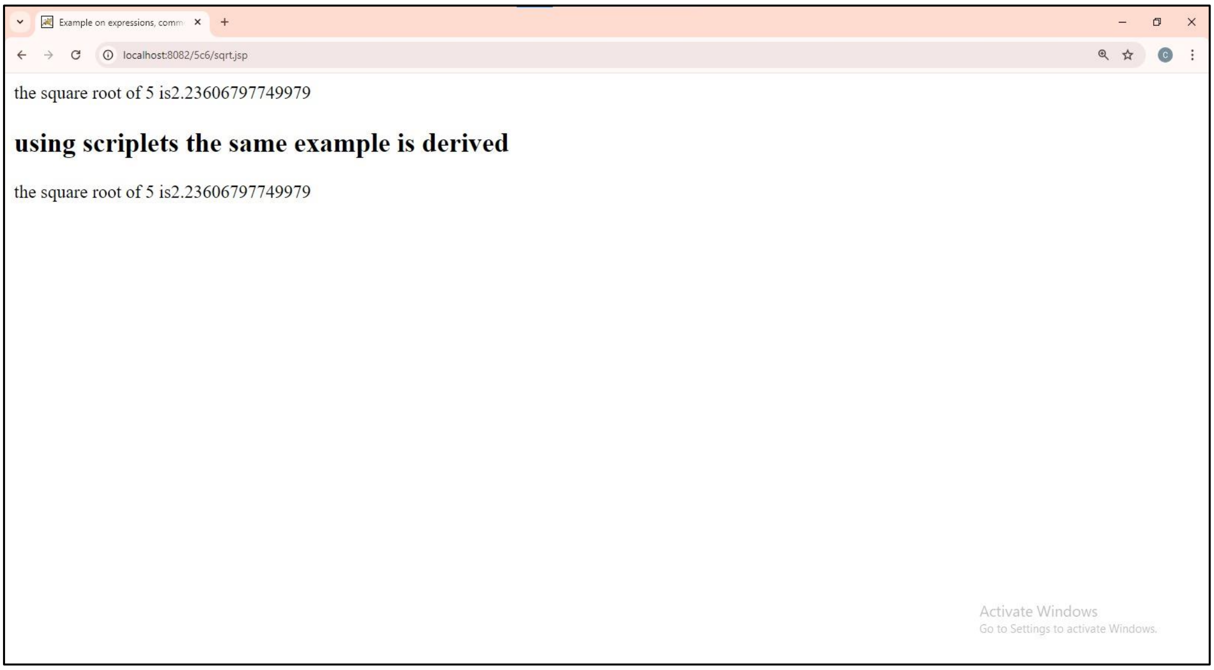
Description:

- **request.getRemoteAddr():**It is a method in Java that retrieves the IP address of the client making the request. It can be used to identify the user's location or for logging and security purposes.
- **out.println():**It is a method in Java used to send output to the client, typically in a web application. It prints the specified text followed by a new line to the response stream.

Code:

```
<html>

<head>

<title>HelloWorld!</title>

</head>

<body>

<h1>Helloworld!!</h1>

<br/>

<%

out.println("yourIPaddressis"+request.getRemoteAddr());

   %>

</body>

</html>
```

Output:


Example on expressions, comm
localhost:8082/5c6/sqrt.jsp
Activate Windows
Go to Settings to activate Windows.

```
the square root of 5 is2.23606797749979
```

using scriplets the same example is derived

```
the square root of 5 is2.23606797749979
```

b) Findoutthesquareroot foranumber.

Aim: To find out the square root for a number.

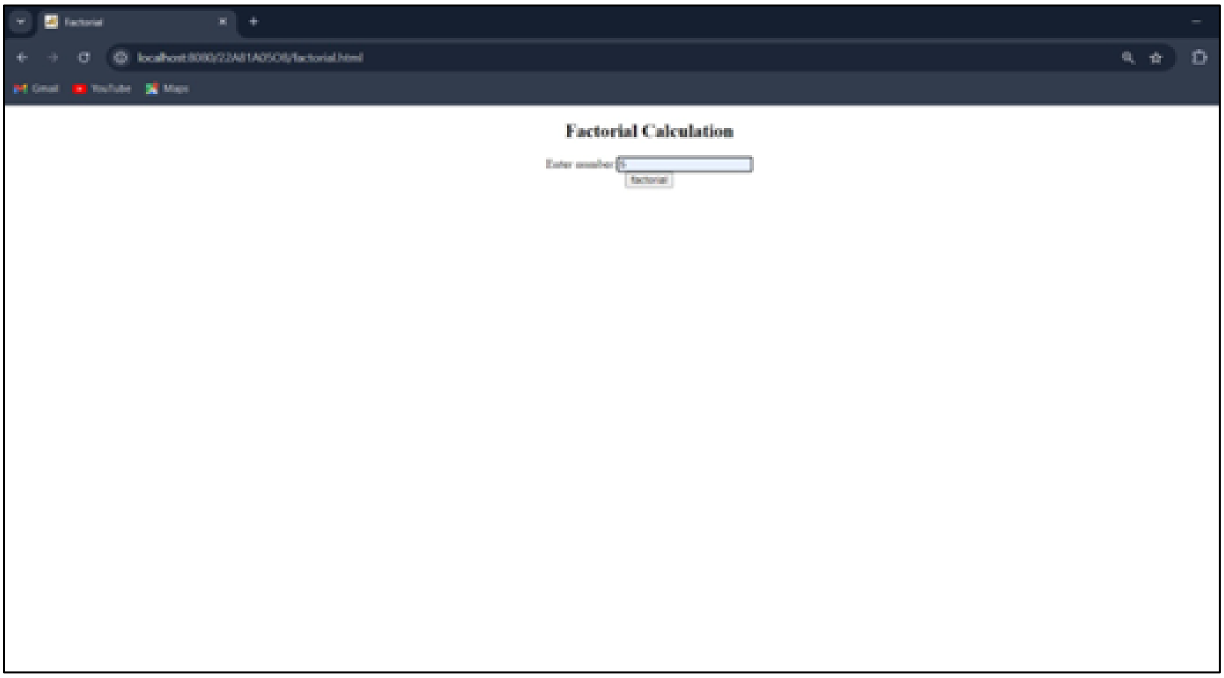
Description:

- **Math.sqrt():** This method computes the square root of the specified number and returns the result as a double value.
- **out.write():**It is a method in Java that writes character data to the output stream without automatically appending a newline.

Code:

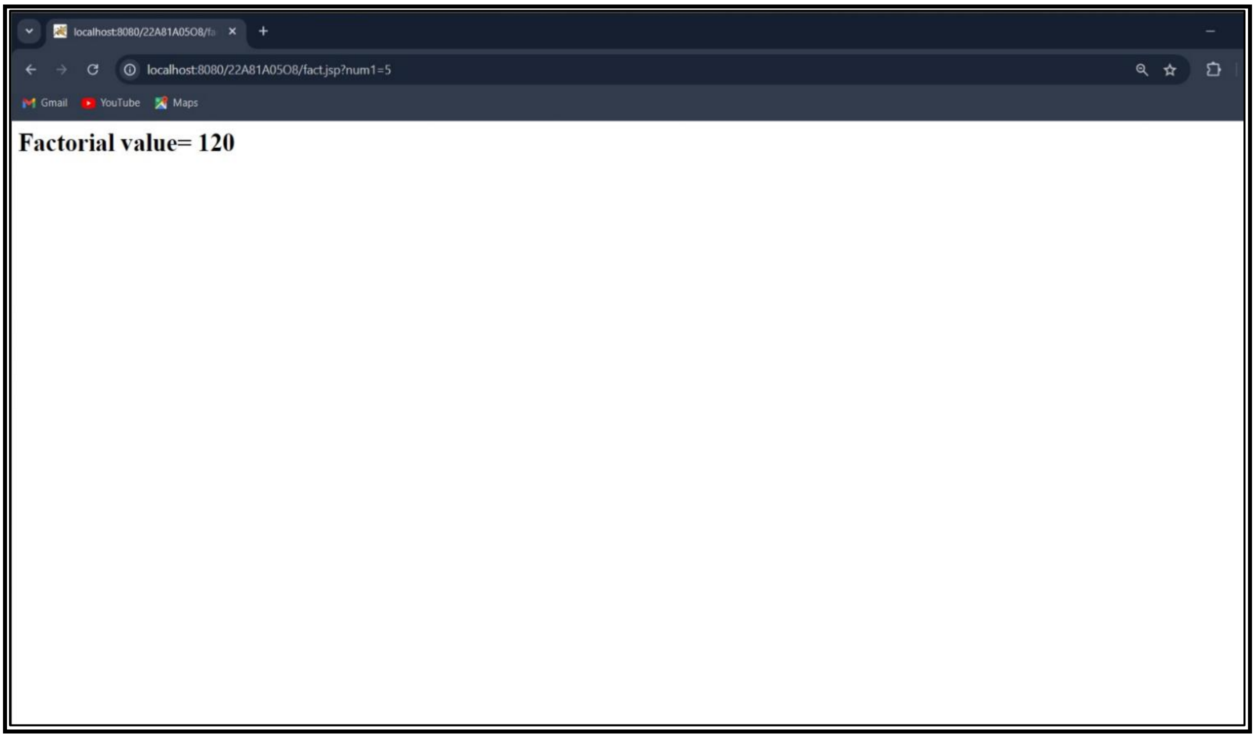
```
<html>
<head>
<title>Example on Experience,comments,Scriplets</title>
</head>
<body>
<p> the square root of 5 is <%= Math.sqrt(5)%></p>
<%--Example of sqrt function using two ways--%>
<h2>using scriplets the same example is derived</h2>
<%
out.write("<p>the square root of 5 is"); out.print(Math.sqrt(5));
%>
</body>
</html>
```

Output:



Factorial Calculation

Enter number: 5


localhost:8080/22A81A05O8/fa
localhost:8080/22A81A05O8/fact.jsp?num1=5
Gmail
YouTube
Maps

Factorial value= 120

EXERCISE -7

Develop JSP Program calculatesfactorial values for an integer number,while the input is taken from html form.

Aim: To Develop JSP program to calculate the factorial values for an integer number, while the input is taken from an html form.

Description:

- **request.getParameter():**It is a method in Java that retrieves the value of a specified request parameter from the HTTP request, typically used to access form data sent by the client
- **out.print():** This outputs the string representation of the date to the web page, allowing the current date and time to be displayed within the HTML content.

Factorial. Jsp

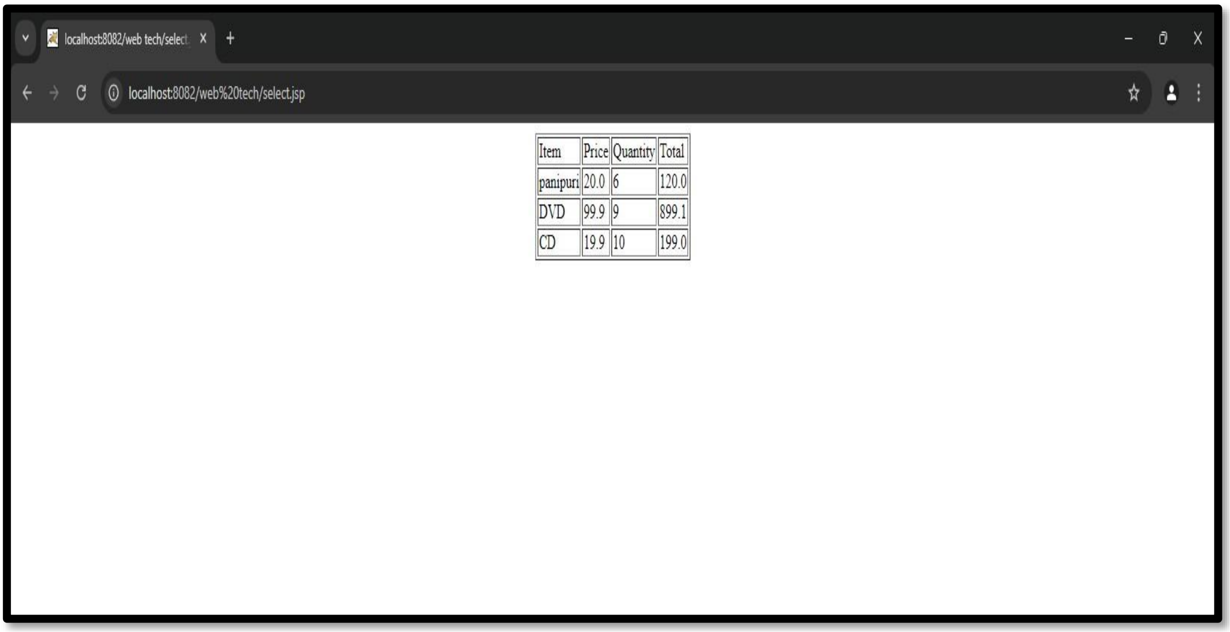
```
<%--calculates factorial values for an integer number--%>

<html>

    <body>

        <%!

            long fact(long n1)

            {

                if(n1==1 || n1==0)

                 return (1);

                else

                 return (fact(n1-1)*n1);

            }

        %>

        <%!

            long result,n;

            %>

        <%  n= Long.parseLong(request.getParameter("num1"));
```

```
                result=fact(n);

                out.println("<h1><b>Factorial value=</b>" +result);

            %>

        </body>

    </html>
```

Factorial.html

```
<!DOCTYPE html >
<html>
	<head>
		<title>Factorial</title>
	</head>
	<body>
		<h2 align=center>Factorial Calculation</h2>
		<form action = "fact.jsp">
			<center>
				Enter number:<input type="text"
name="num1"><br>
					<input type="submit" value="factorial">
			</center>
		</form>
	</body>
</html>
```

OUTPUT:

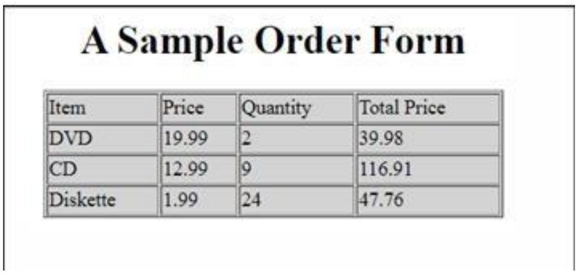


localhost:8082/web tech/select.
localhost:8082/web%20tech/select.jsp

Item	Price	Quantity	Total
panipuri	20.0	6	120.0
DVD	99.9	9	899.1
CD	19.9	10	199.0

EXERCISE-8

Aim:Develop JSP program shows a Sample Order Form.



A Sample Order Form

Item	Price	Quantity	Total Price
DVD	19.99	2	39.98
CD	12.99	9	116.91
Diskette	1.99	24	47.76

Description:

- ImportsandDeclarations:Thecodeimportsclassesfromthejava.sqlpackagetomanageSQL connections and queries.

- DatabaseConnection:ItestablishesaconnectiontoaMySQLdatabasenamed"college"usingJDBC, with "root" as the username and password.

- ExecutingaQuery:ASQLquery(SELECT*FROMorder1)isexecutedtoretrieveall recordsfrom the "order1" table, and results are stored in a ResultSet.

- GeneratingHTMLTable:AnHTMLtableiscreated,andaloopiteratesthroughtheResultSetto display item details (name, price, quantity, total) in the table.

- ClosingtheConnection:Thedatabaseconnectionisclosedafterretrievingthedatatofreeup resources.

- ErrorHandling:Anyexceptionsthatoccurduringtheprocessarecaughtandprintedtotheconsolefor debugging purposes

Here'sashortnoteaboutthemethodsusedinthecode:

1. Class.forName():LoadstheMySQLJDBCdrivertoenabledatabaseconnectivity.
2. DriverManager.getConnection():EstablishesaconnectiontotheMySQLdatabaseusingthe URL, username, and password.
3. Connection.createStatement():CreatesaStatementobjectforexecutingS

QLqueries.

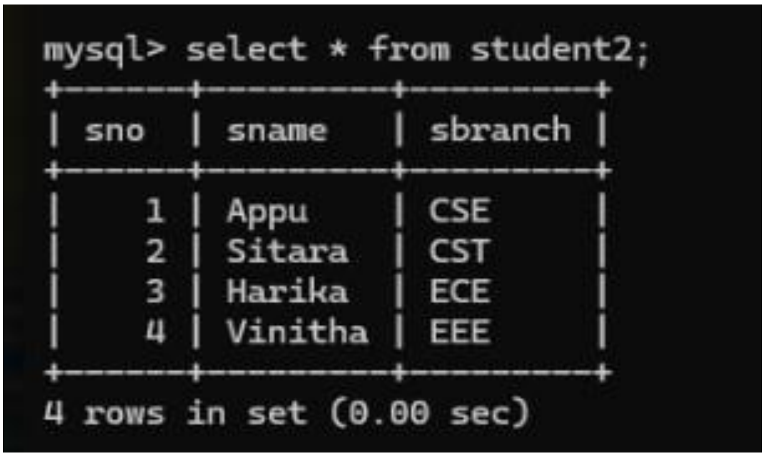
4. Statement.executeQuery():ExecutesaSELECTqueryandreturnstheresultinaResultSet.
5. ResultSet.next():MovestothenextrowintheResultSetandchecksifmorerowsexist.
6. ResultSet.getString(),getFloat(),getInt():RetrievesdatafromthecurrentrowoftheResultSet as a string, float, or integer.
7. Connection.close():Closesthedatabaseconnectiontofreeresources.
8. System.out.println():Printsexceptiondetailstotheconsoleforerrorhandling.

Code:

```
<html>

<body>

<%@pageimport="java.sql.*"%>

<%

try

{

   Class.forName("com.mysql.jdbc.Driver");

   Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/college","roo
t","root");

   Statementstmt=con.createStatement();

   ResultSetrs=stmt.executeQuery("select*fromorder1");%>

  <tableborder=1align=center>

  <tr>

        <td>Item</td>
```

```
          <td>Price</td>

          <td>Quantity</td>

          <td>Total</td>

   </tr>

   <%  while(rs.next()){%>

   <tr>

          <td><%out.print(rs.getString(1));%></td>

          <td><%out.print(rs.getFloat(2));%></td>
          <td><%out.print(rs.getInt(3));%></td>

          <td><%out.print(rs.getFloat(4));%></td>

    </tr>

<%}%>

</table>

<%

   con.close();

}

catch(Exception  e){

      System.out.println(e);}

%>

</body>

</html>
```

OUTPUT:



```
mysql> select * from student2;
+-----+---------+---------+
| sno | sname   | sbranch |
+-----+---------+---------+
|   1 | Appu    | CSE     |
|   2 | Sitara  | CST     |
|   3 | Harika  | ECE     |
|   4 | Vinitha | EEE     |
+-----+---------+---------+
4 rows in set (0.00 sec)
```

EXERCISE:9

Aim:CreateJSPtoinsert,delete,andupdatethedetailsofstudentintothedatabaseusing JDBC connectivity.

Insert.javaDesc

ription:

Thisprogramisusedtoinsert newrecordsinto thestd1tableinthecompany1 database.

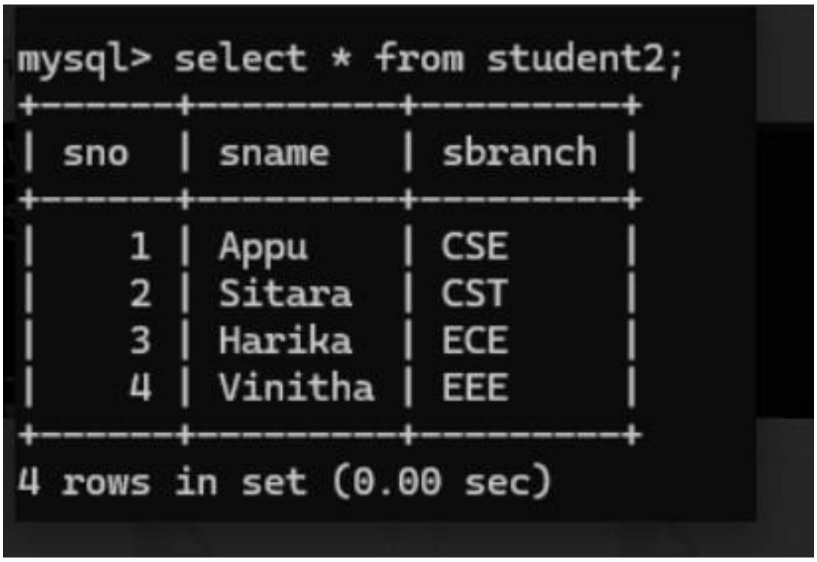
- Functionality: It establishes a connection to the MySQLdatabase using JDBC. Three INSERT SQLstatements are created to add new student records, each containing a studentnumber,name,anddepartment.Theserecordsareinsertedone byoneintothe std1 table.
- Purpose:Thisprogramdemonstrateshowtoaddnewdatatoadatabaseusing INSERT queries in JDBC.

Code:

```
import

java.sql.*;

publicclassInser

t{

   publicstaticvoidmain(Stringar

      gs[]){ try{

         Class.forName("com.mysql.jdbc.Driver");

         Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/company
1","root","root");

Statementstmt =con.createStatement();
```

```
  Strings="INSERTINTOstd1VALUES(6,'mahitha','cse')";

  Strings1="INSERTINTOstd1VALUES(1,'mouni','aiml')";

String  s2  =  "INSERT  INTO  std1  VALUES  (2,  'sriya',  'eee')";

stmt.executeUpdate(s);
stmt.executeUpdate(s1);

stmt.executeUpdate(s2);

System.out.println("Recordinserted

");

        }

        catch(Exception

           e)  {

        System.out.print(

           e);  }

     }

  }
```

OUTPUT:



```
mysql> select * from student2;
+------+---------+---------+
| sno  | sname   | sbranch |
+------+---------+---------+
|    1 | Appu    | CSE     |
|    2 | Sitara  | CST     |
|    3 | Harika  | ECE     |
|    4 | Vinitha | EEE     |
+------+---------+---------+
4 rows in set (0.00 sec)
```

Update.java:

Description:

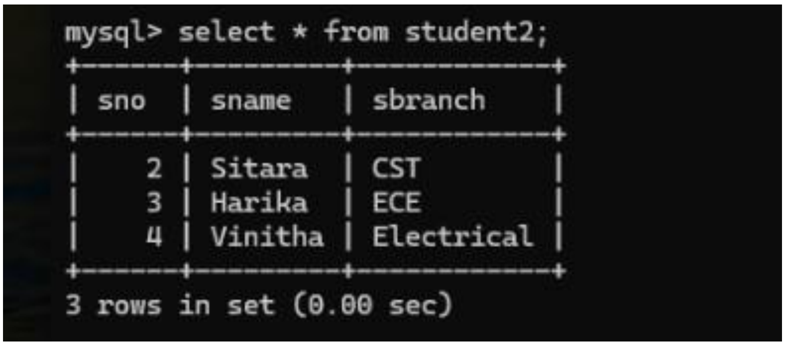
Thisprogramupdatesaspecificstudent'srecordinthestd1table.

- Functionality: It connects to the company1 database and uses an UPDATE SQL statementtochangethestudentnamefrom'appu'to'Appu'forthematchingrecordin the std1 table.
- Purpose:Thisprogramdemonstrateshowtomodifyexistingdatainadatabaseusingan UPDATE query in JDBC.

Code:

```
 import
 java.sql.*;

 Public
 classUpdate
 {

    publicstaticvoidmain(Stringargs[]){

        try {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con

=DriverManager.getConnection("jdbc:mysql://localhost:3306/company1","root"
,"root");

        Statementstmt =con.createStatement();

        Strings="updatestd1setsname='mounika'wheresnamelike'mouni'";
        stmt.executeUpdate(s);

        System.out.println("Recordupdatedsucc
        essfully");

        con.close();

        }
    catch (Exception e)
        {
            System.out.println(e);
             }
         }
     }
```

OUTPUT:



```
mysql> select * from student2;
+------+---------+------------+
| sno  | sname   | sbranch    |
+------+---------+------------+
|    2 | Sitara  | CST        |
|    3 | Harika  | ECE        |
|    4 | Vinitha | Electrical |
+------+---------+------------+
3 rows in set (0.00 sec)
```

Delete.java:

Description:

Thisprogramdeletes arecordfromthestd1tableinthecompany1 database.

- Functionality:ItconnectstothedatabaseandexecutesaDELETESQLstatementto remove the record where the student number (sno) is 1.
- Purpose:Thisprogramdemonstrateshowtodeletespecificdatafromadatabaseusinga DELETE query in JDBC.

Code:

```
import
java.sql.*;

Public class
Delete
{

   publicstaticvoidmain(Stringargs[]){

   try {

      Class.forName("com.mysql.jdbc.Driver");

      Connection con

=DriverManager.getConnection("jdbc:mysql://localhost:3306/company1","roo
t","root");

      Statement stmt =

      con.createStatement();

      Strings="deletefromstd1wheresno

      =6"; stmt.executeUpdate(s);

      System.out.println("RecordDeletedsucc

      essfully"); con.close();}
```

```
        catch(Exception  e)
        {
                    System.out.println(e);
         }
    }
}
```