EX.NO : 1

DATE :

HOTSPOTS IN MAP

Aim:

Create a web page with the following using HTML

a. To embed a map in a web page
b. To fix the hot spots in that map
c. Show all the related information when the hot spots are clicked.

Procedure:

1. Download a map image from internet and save the image with map.jpg
2. Create a webpage using html by embedding map image using <img> tag
3. Identify positions on the map using paint application for creating hotspots
4. Create hotspots on the map images using <map> tag
5. Create web pages for each hotspots
6. Run the application

Program:

map.html

```
<!DOCTYPE html>
<html>
    <head>
      <title>INDIA MAP</title>
    </head>
    <body>
      <img src="india.jpg" alt="India-map" usemap="#indiamap">
      <map name="indiamap">
            <area coords="336,987,50" shape="circle" href="tn.html">
            <area coords="261,975,50" shape="circle" href="kr.html">
            <area coords="362,792,50" shape="circle" href="an.html">
            <area coords="247,644,50" shape="circle" href="ma.html">
      </map>
    </body>
</html>
```

kl.html

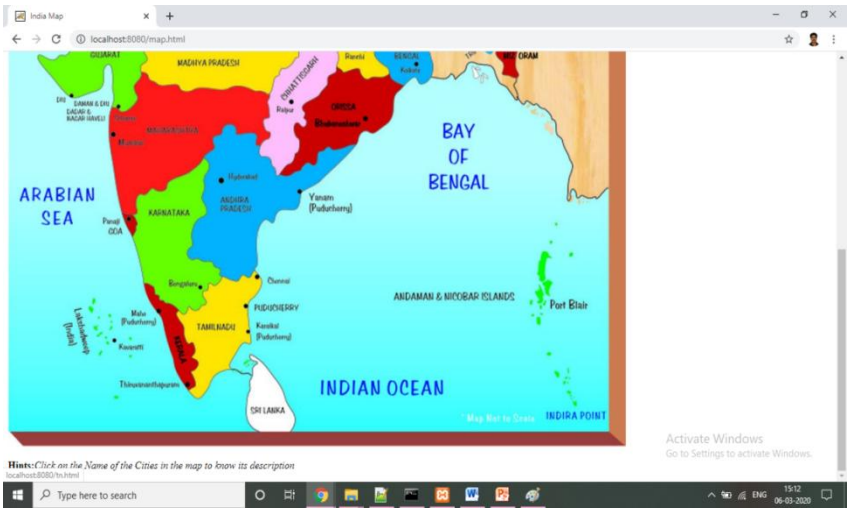
```
<!DOCTYPE html>
<html>
    <head>
      <title>KERALA MAP</title>
    </head>
    <body>
      <imgsrc="kl.jpg" >
    </body>
</html>
```

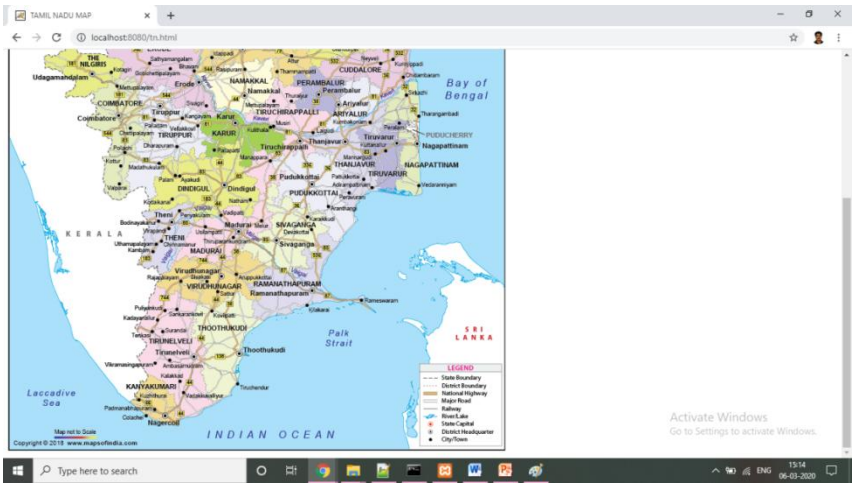
tn.html

```
<!DOCTYPE html>
```

```
<html>
	<head>
		<title>TAMIL NADU MAP</title>
	</head>
	<body>
		<imgsrc="tnmap.jpg" >
	</body>
</html>
```

Output:





Result:

Thus web pages for embedding map were created and tested successfully.

EX.NO : 2 **IMPLEMENTATION OF CSS TYPES**

DATE :

Aim:

Create a web page with the following.

a) Cascading style sheets.
b) Embedded style sheets.
c) Inline style sheets. Use our college information for the web pages.

Procedure:

1. Create a webpage using html from displaying college information
2. Create external css file for styling few tags
3. Link the external css using <link> tag
4. Embed a style sheet in a web page using <style> tag
5. Add inline css using style attribute
6. Run the application

Program:

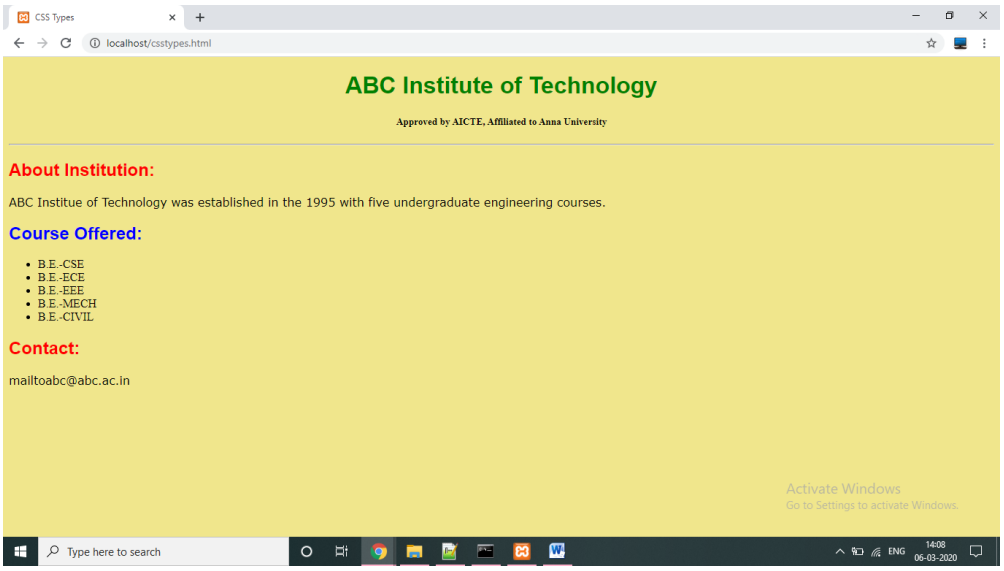
```
<!DOCTYPE html>
<html>
	<head>
		<title>CSS Types</title>
	<style type="text/css">
	<!--2.Internal Stylesheet -->
	h3
	{
		font-family:arial;
		color:blue;

	}
	h5
	{
		text-align:center;
	}
	p
	{
		font-sise:14pt;
		font-family:verdana
	}
	</style>
	<!--3.External Stylesheet -->
	<link rel="stylesheet" href="ext.css">
	</head>
	<body>
		<h1>
			ABC Institute of Technology
		</h1>
```

```
                <h5>
                        Approved by AICTE, Affiliated to Anna University
                </h5>
                <hr>
                <h2>About Institution:</h2>
                <p>
                ABC Institue of Technology was established in the 1995 with five
undergraduateengineering courses.
                </p>
                <!--1. INLINE STYLE SHEET -->
                <h2 style="color:blue;">Course Offered:      </h2>
                <p>
                <ul>
                        <li>B.E.-CSE</li>
                        <li>B.E.-ECE</li>
                        <li>B.E.-EEE</li>
                        <li>B.E.-MECH</li>
                        <li>B.E.-CIVIL</li>
                </ul>
                </p>
                <h2>Contact:</h2>
                <p>mailtoabc@abc.ac.in</p>
        </body>
</html>
```

ext.css

```
body{
        background-color: #f0e68c;
}
h1{
        font-family:arial;
        color:green;
        text-align:center;
}
h2{
        font-family:arial;
        color:red;
        left:20px
}
```

Output:



Result:

Thus the web pages for implementing various types of CSS were created and testedsuccessfully.

EX.NO : 3 **FORM VALIDATION USING JAVASCRIPT**

DATE :

Aim:

To write a program to Validate the Registration, user login, user profile and payment by credit card pages using JavaScript

Procedure:

1. Create form in a webpage using <form>tage for registration
2. Create javascript function inside <script> tag for validating all input fields of the html form
3. Read the values of input fields in the javascript
4. Validate those values
5. Show error message, if input fields are empty.
6. Run the application

Program:

REGISTRATION FORM VALIDATEION

```
<html>
<head>
<script>
function validate()
{
var name = document.forms["RegForm"]["Name"];
var email = document.forms["RegForm"]["EMail"];
var phone = document.forms["RegForm"]["Telephone"];
var what =  document.forms["RegForm"]["Subject"];
var password = document.forms["RegForm"]["Password"];
var address = document.forms["RegForm"]["Address"];

if (name.value == "")
{
        window.alert("Please enter your name.");
        name.focus();
        return false;
}

if (address.value == "")
{
        window.alert("Please enter your address.");
        address.focus();
        return false;
}

if (email.value == "")
{
        window.alert("Please enter a valid e-mail address.");
        email.focus();
        return false;
}
```

```
if (phone.value == "")
{
        window.alert("Please enter your telephone number.");
        phone.focus();
        return false;
}

if (password.value == "")
{
        window.alert("Please enter your password");
        password.focus();
        return false;
}

if (what.selectedIndex< 1)
{
        alert("Please enter your course.");
        what.focus();
        return false;
}

return true;
}
</script>
<style>
div
{
box-sizing: border-box;
width: 100%;
border: 100px solid black;
float: left;
align-content: center;
align-items: center;
}
h1
{
        text-align: center
}
form
{
margin: 0 auto;
width: 600px;
}
</style>
</head>

<body>
<h1> REGISTRATION FORM </h1>
<form name="RegForm" action="" onsubmit="return validate()" method="post">
```

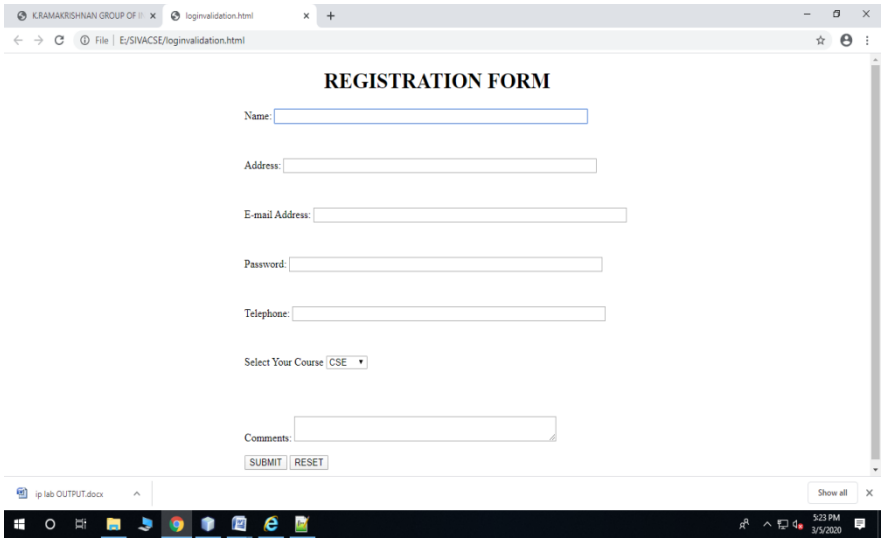
```
<p>Name: <input type="text" size=65 name="Name"></p><br>
<p> Address: <input type="text" size=65 name="Address"></p><br>
<p>E-mail Address: <input type="text" size=65 name="EMail"></p><br>
<p>Password: <input type="text" size=65 name="Password"></p><br>
<p>Telephone: <input type="text" size=65 name="Telephone"></p><br>

<p>Select Your Course
<select type="text" value="" name="Subject">
<option>CSE</option>
<option>ECE</option>
<option>EEE</option>
<option>MECH</option>
<option>CIVIL</option>
</select></p><br><br>
<p>Comments:  <textarea cols="55" name="Comment"></textarea></p>
<p><input type="submit" value="SUBMIT" name="Submit">
<input type="reset" value="RESET" name="Reset">
</p>
</form>
</body>
</html>
```

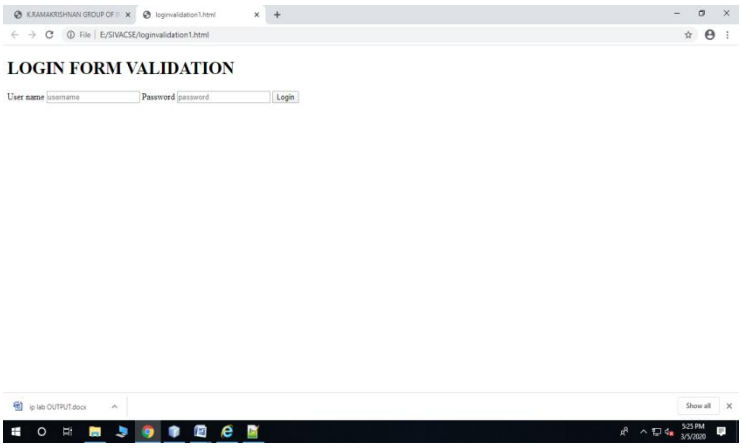
LOGIN FORM VALIDATION

```
<!DOCTYPE html>
<html>
<head>
<script>
FunctionvalidateForm()
{
var un = document.loginform.usr.value;
varpw = document.loginform.pword.value;
var username = "username";
var password = "password";
if ((un == username) && (pw == password))
{
        return true;
}
else
{
        alert ("Login was unsuccessful, please check your username and password");
        return false;
}
}
</script>
</head>
<body>
<h1>LOGIN FORM VALIDATION</h1>

<form name="loginform" onSubmit="return validateForm();" action="ex3.html"
method="post">
```

```
<label>User name</label>
<input type="text" name="usr" placeholder="username">
<label>Password</label>
<input type="password" name="pword" placeholder="password">
<input type="submit" value="Login"/>
</form>
</body>
</html>
```

Output:





Result:

Thus programs to Validate the Registration, user login, user profile and payment by credit card pages using JavaScript were created and tested successfully.

EX.NO : 4(a) **INVOKE SERVLET FROM HTML FORM**

DATE :

Aim:

To Write programs in Java using Servlets to Invoke Servlets from HTML Forms Using Servlets

Procedure:

1. Open Eclipse IDE
2. Create a project using following:
    a. File → Dynamic Web Project Enter Project Name →Click Next →Click Next →Click Generate web.xml deployment descriptor → Click Finish
3. Create form in the index.html file which invokes various servlets.
4. Create servlet using following:
    a. Right Click on the project name → New → Class → Type Class Name → Finish
5. Edit servlet program
6. Run Application

Program:

Index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>My Page title</title>
<style>
h1
{
        color:blue;
}
</style>
</head>
<body>
<h1><center>INVOKING SERVLETS FROM HTML</center></h1>
<form action="MyServlet">
        Name:<input type="text" name="name">
        <input type="submit" value="Go">
</form>
</body>
</html>
```

MyServlet.java

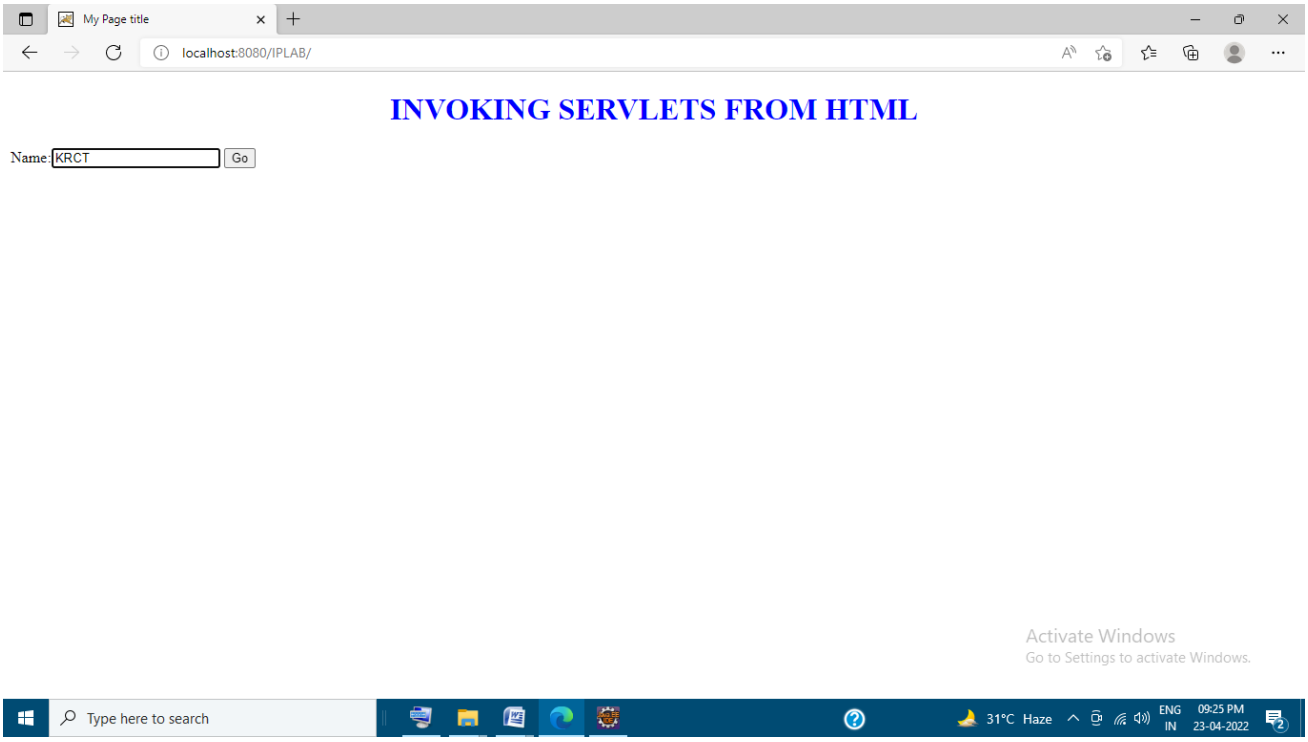
```
package com.IPLAB;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
```

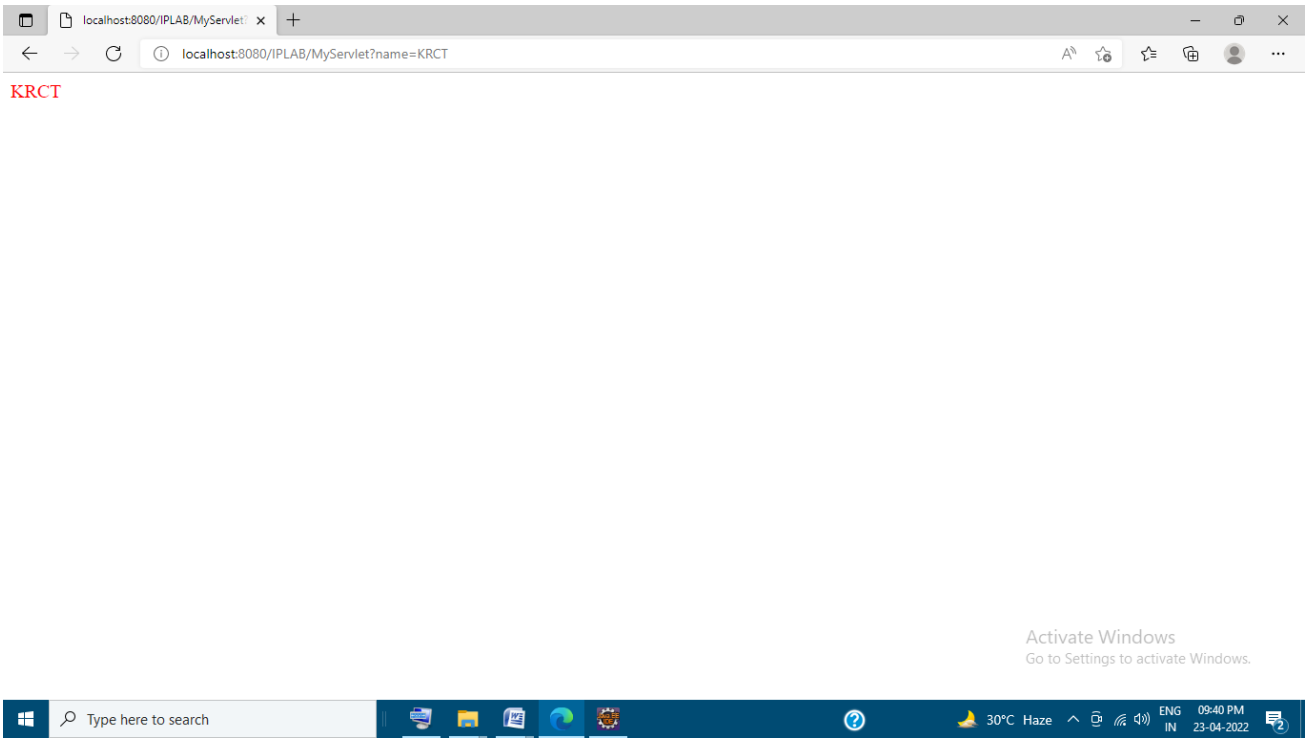
```
import javax.servlet.http.HttpServletResponse;
publicclassMyservletextends HttpServlet{
        publicvoid doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException
        {
                res.setContentType("text/html");
                String i = req.getParameter("name");
                PrintWriter out=res.getWriter();
                out.println("<html>");
                out.println("<body>");
                out.println("<p style='color:red;font-size: 20px;'>");
                out.println(i);
                out.println("</p>");
                out.println("</body>");
                out.println("</html>");
        }
}
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID" version="3.1">
<servlet>
        <servlet-name>abc</servlet-name>
        <servlet-class>com.IPLAB.Myservlet</servlet-class>
</servlet>
<servlet-mapping>
        <servlet-name>abc</servlet-name>
        <url-pattern>/MyServlet</url-pattern>
</servlet-mapping>
</web-app>
```

Output:





Result:

Thus the programs in Java using Servlets to Invoke Servlets from HTML Forms Using Servlets were created and tested successfully.

EX.NO : 4(b) **SESSION TRACKING USING HIDDEN FORM FIELDS**

DATE :

Aim:

To write programs in Java using Servlets for session tracking using hidden form fields.

Procedure:

1. Open Eclipse IDE
2. Create a project using following:
    a. File → Dynamic Web Project Enter Project Name →Click Next →Click Next →Click Generate web.xml deployment descriptor → Click Finish
3. Create form in the index.html file which invokes first servlet
4. Create servlet using following:
    a. Right Click on the project name → New → Class → Type Class Name → Finish
5. Edit servlet program to pass the details using hidden form fields from the first servlet. Eg: <input type='hidden' name='uname'>
6. Create second servlet using step-4
7. Edit servlet program
8. Run Application

Program:

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>My Page title</title>
</head>
<body>
<h1><center>Session tracking </center></h1>
<form action="MyServlet1">
        Enter Name:<input type="text" name="uname">
        <input type="submit" value="Go">
</form>
</body>
</html>
```

MyServlet1.java

```
package com.IPLAB;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Myservlet1 extends HttpServlet{
```

```
	public void doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException
	{
		res.setContentType("text/html");
		String name = req.getParameter("uname");
		PrintWriter out=res.getWriter();
		out.println("Welcome "+name);
		out.println("<html>");
		out.println("<body>");
		out.println("<form action='Myservlet2' method='post'>");
		out.println("<input type='hidden' name='uname' value='"+name+"'>");
		out.println("<input type='submit'value='Go'>");
		out.println("</form>");
		out.println("</body>");
		out.println("</html>");
	}
}
```

MyServlet2.java

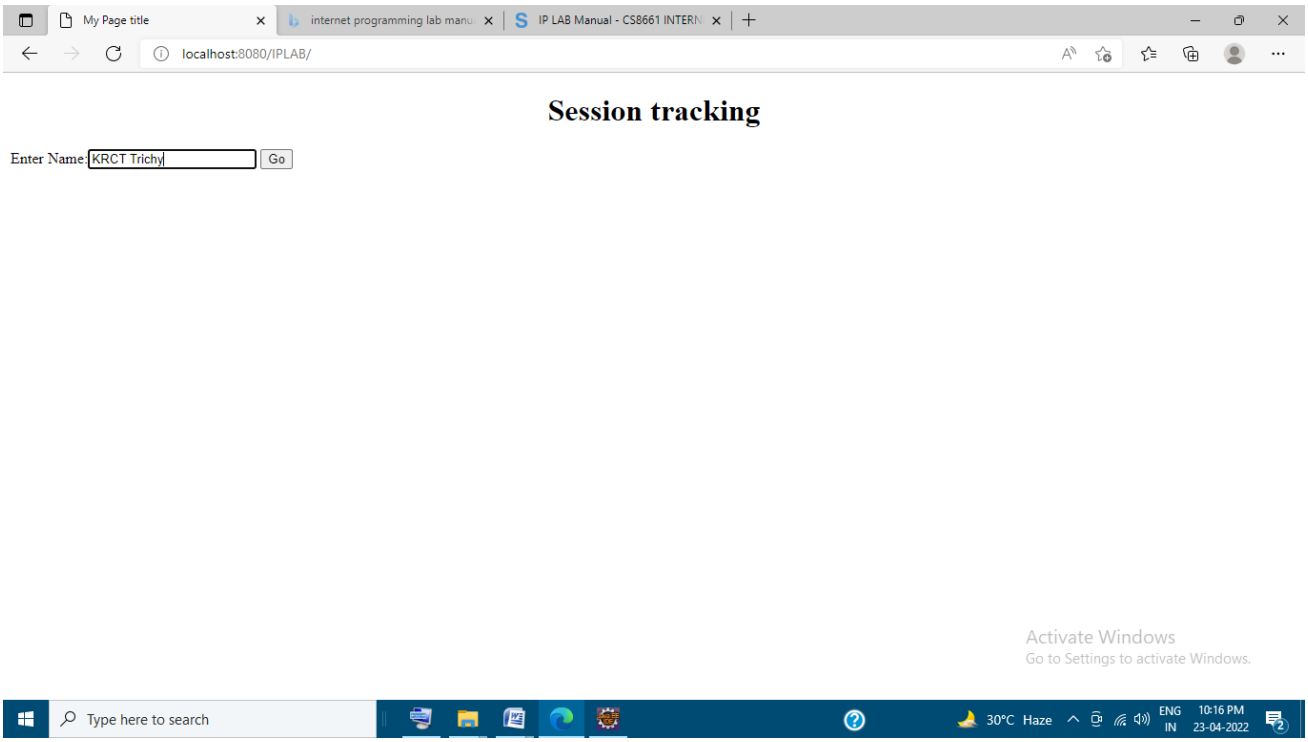
```
package com.IPLAB;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Myservlet2 extends HttpServlet{
	public void doPost(HttpServletRequest req,HttpServletResponse res) throws
IOException
	{
		res.setContentType("text/html");
		String name = req.getParameter("uname");
		PrintWriter out=res.getWriter();
		out.println("Hi "+name);

	}
}
```

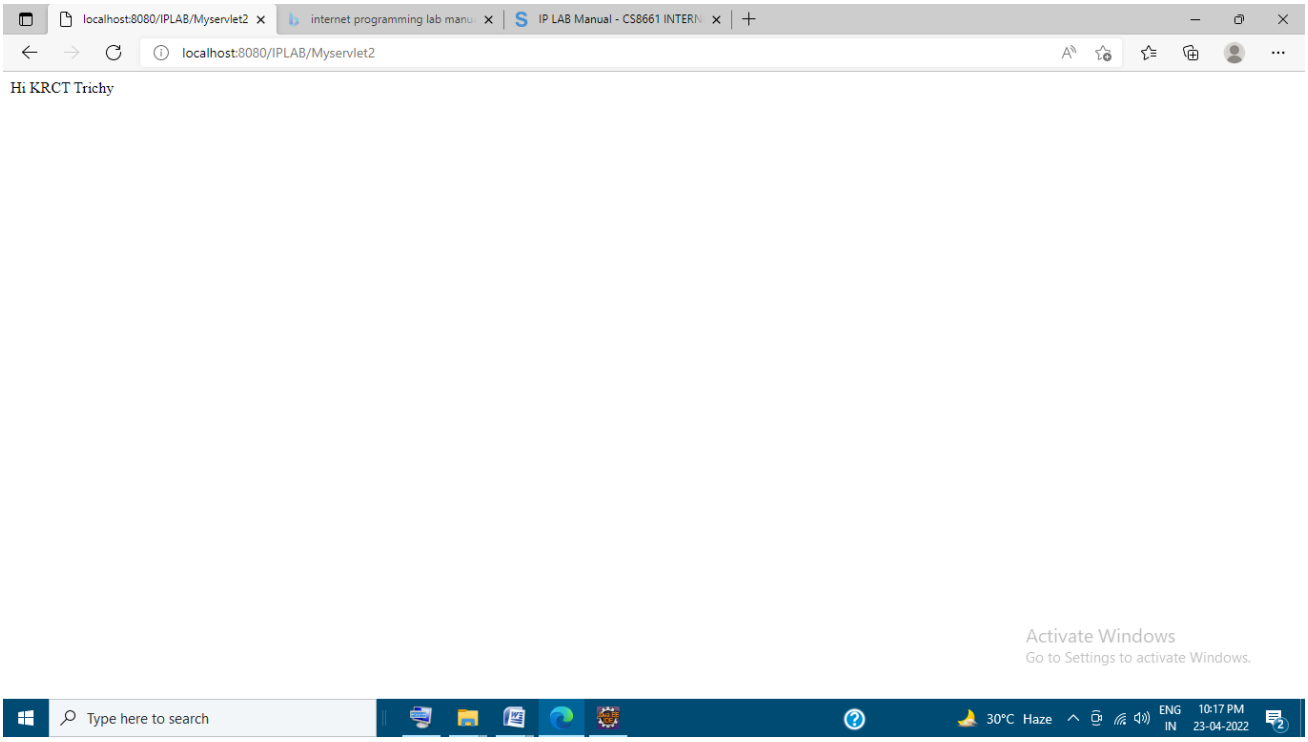
Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID" version="3.1">
<servlet>
	<servlet-name>first</servlet-name>
	<servlet-class>com.IPLAB.Myservlet1</servlet-class>
</servlet>
<servlet-mapping>
	<servlet-name>first</servlet-name>
	<url-pattern>/MyServlet1</url-pattern>
```

```
</servlet-mapping>
<servlet>
        <servlet-name>second</servlet-name>
        <servlet-class>com.IPLAB.Myservlet2</servlet-class>
</servlet>
<servlet-mapping>
        <servlet-name>second</servlet-name>
        <url-pattern>/Myservlet2</url-pattern>
</servlet-mapping>
</web-app>
```

Output:





Result:

Thus the programs in Java using Servlets for session tracking using hidden form fields were created and tested successfully.

EX.NO : 4(c) **SESSION TRACKING FOR A HIT COUNT**

DATE :

Aim:

To write programs in Java using Servlets for session tracking for a hit count.

Procedure:

1. Open Eclipse IDE
2. Create a project using following:
    a. File → Dynamic Web Project Enter Project Name →Click Next →Click Next →Click Generate web.xml deployment descriptor → Click Finish
3. Create form in the index.html file which invokes first servlet
4. Create servlet using following:
    a. Right Click on the project name → New → Class → Type Class Name → Finish
5. Edit servlet program to create the session and maintain hit count using servlet.
6. Run Application

Program:

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>My Page title</title>
</head>
<body>
<h1><center>Session tracking For a Hit Count</center></h1>
<form action="Hitcount">
        Enter Name:<input type="text" name="uname">
        <input type="submit" value="Go">
</form>
</body>
</html>
```

Hitcount.java

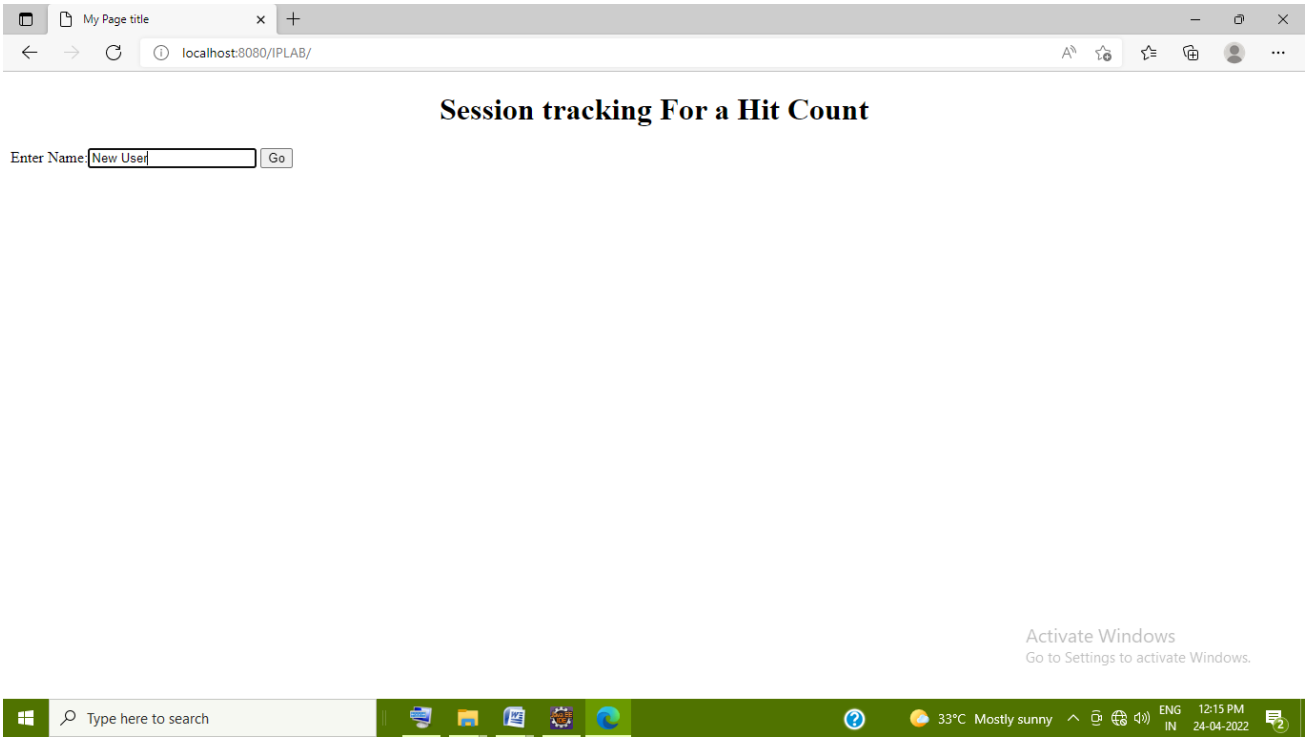
```
package com.IPLAB;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.Date;

import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

public class Hitcount extends HttpServlet{
        public void doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException
```

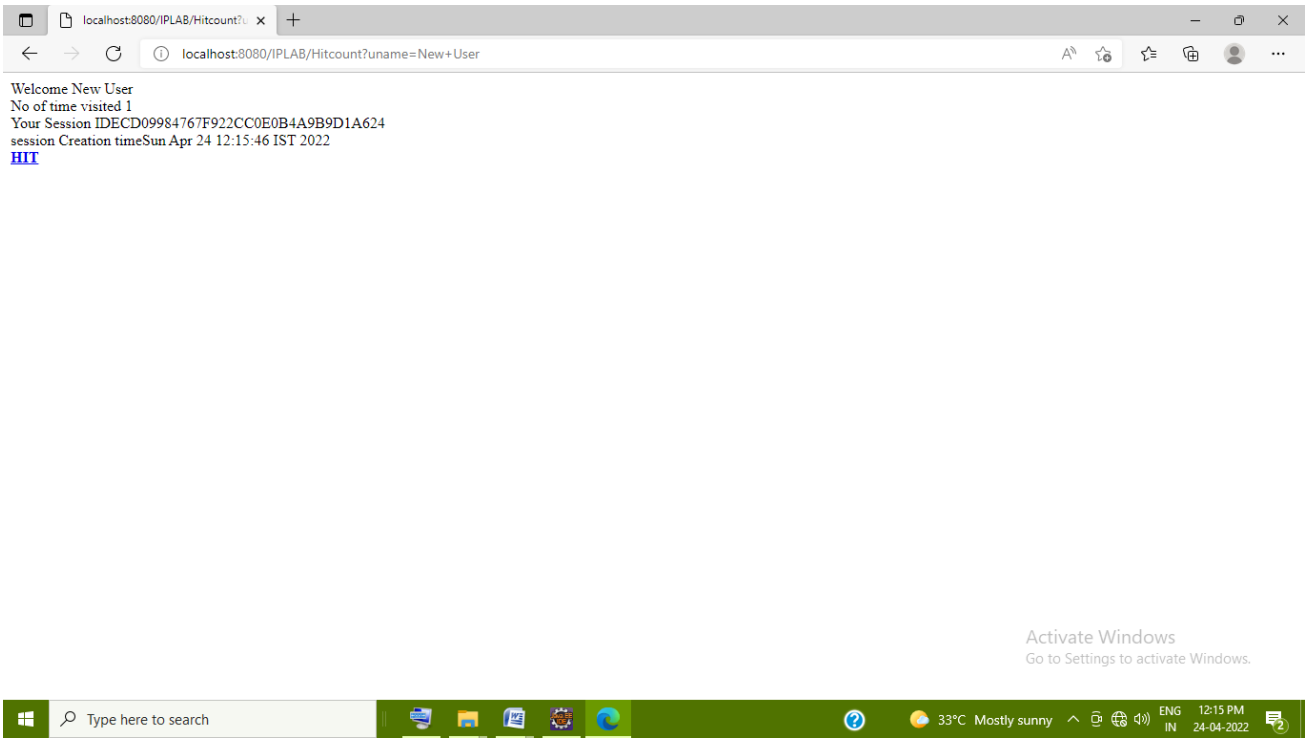
```
        {
                res.setContentType("text/html");
                String name = req.getParameter("uname");
                PrintWriter out=res.getWriter();
                out.println("Welcome "+name);
                HttpSession ses = req.getSession();
                Integer num = (Integer) ses.getAttribute("count");
                if(num==null)
                {
                        num=new Integer(1);
                }
                else
                {
                        num=new Integer(num.intValue()+1);
                }
                ses.setAttribute("count", num);
                out.println("<br>No of time visited "+ num);
                out.println("<br>Your Session ID"+ ses.getId());
                out.println("<br>session Creation time"+new Date(ses.getCreationTime()));
                out.println("<br><b><a href='Hitcount?uname="+name+"'>HIT</a></b>");

        }
}
```

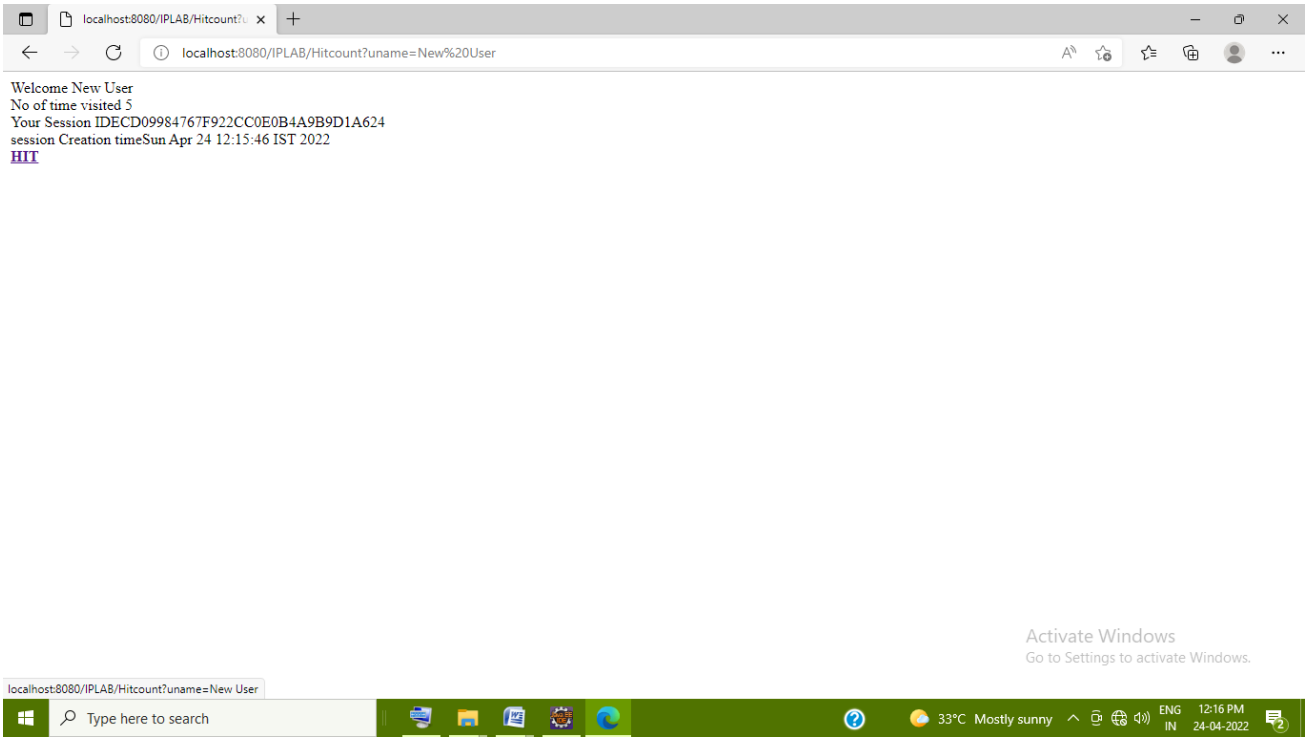
Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID" version="3.1">

<servlet>
        <servlet-name>first</servlet-name>
        <servlet-class>com.IPLAB.Hitcount</servlet-class>
</servlet>
<servlet-mapping>
        <servlet-name>first</servlet-name>
        <url-pattern>/Hitcount</url-pattern>
</servlet-mapping>

</web-app>
```

Output:


My Page title
localhost:8080/IPLAB/
Session tracking For a Hit Count
Enter Name:New User
Go
Activate Windows
Go to Settings to activate Windows.
Type here to search
33°C Mostly sunny
ENG IN
12:15 PM 24-04-2022


localhost:8080/IPLAB/Hitcount?uname=New+User
Welcome New User
No of time visited 1
Your Session IDECD09984767F922CC0E0B4A9B9D1A624
session Creation timeSun Apr 24 12:15:46 IST 2022
HIT
Activate Windows
Go to Settings to activate Windows.
Type here to search
33°C Mostly sunny
ENG IN
12:15 PM 24-04-2022



Result:

Thus the programs in Java using Servlets for session tracking using for a hit count were created and tested successfully.

EX.NO : 5 **ONLINE EXAMINATION PORTAL USING SERVLET**

DATE :

Aim:

Write programs in Java to create three-tier applications using servlets for conducting online examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server.

Procedure:

1. Open Eclipse IDE
2. Create a project using following:
    a. File → Dynamic Web Project Enter Project Name →Click Next →Click Next →Click Generate web.xml deployment descriptor → Click Finish
3. Create a table in Mysql dbms for storing students score
4. Create form in the index.html file for displaying Multiple Choice questions
5. Submit answer to another servlet to calculate score and to store the result into database
6. Create servlet using following:
    a. Right Click on the project name → New → Class → Type Class Name → Finish
7. Edit servlet program to calculate score and to store results into database
   Eg: <input type='hidden' name='uname'>
8. Create another servlet to retrieve results from the database and to display on the browser
9. Run Application

Program:

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Online Examination</title>
</head>
<body>
<h1 style="text-align:center">Online Examination</h1>
<form action="SubmitData" method="post">
        1.What is the correct HTML element for inserting a line break?<br>
                <input type="radio" name="q1" value="break">break<br>
                <input type="radio" name="q1" value="br">br<br>
                <input type="radio" name="q1" value="lb">lb<br>
                <input type="radio" name="q1" value="linebreak">Line Break<br>
                <br>
        2.What is the correct HTML Element for creating a hyperlink?<br>
                <input type="radio" name="q2" value="a">a<br>
                <input type="radio" name="q2" value="link">link<br>
                <input type="radio" name="q2" value="href">href<br>
                <input type="radio" name="q2" value="class">class<br>
```

```
                <br>
        3.Which character is used to indicate an end tag?<br>
                <input type="radio" name="q3" value="{">{<br>
                <input type="radio" name="q3" value=">">><br>
                <input type="radio" name="q3" value="|">|<br>
                <input type="radio" name="q3" value="/">/<br>
                <br>
        4.Which HTML attribute is used to define inline styles?<br>
                <input type="radio" name="q4" value="style">style<br>
                <input type="radio" name="q4" value="font">font<br>
                <input type="radio" name="q4" value="styles">styles<br>
                <input type="radio" name="q4" value="class">class<br>
                <br>
        5.Which property is used to change the background color?<br>
                <input type="radio" name="q5" value="color">color<br>
                <input type="radio" name="q5" value="bgcolor">bgcolor<br>
                <input type="radio" name="q5" value="background-color">background-
color<br>
                <input type="radio" name="q5" value="bg-color">bg-color<br>
                <br>
                Enter Your Roll No<input type="text" name="rollno" placeholder="Enter
your Roll Number"><br><br>
                Enter your name<input type="text" name="name" placeholder="Enter
your name"><br><br>
                <input type="submit" value="Submit">

</form>
</body>
</html>
```

SubmitData.java

```
package com.IPLAB;


import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class SubmitData extends HttpServlet {
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
                PrintWriter out = response.getWriter();

                try
                {
                        String rollno=request.getParameter("rollno");
```

```
String name=request.getParameter("name");
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");
                int score=0;
                if(q1.equals("br"))
                {
                        score=score+1;
                }
                if(q2.equals("a"))
                {
                        score=score+1;
                }
                if(q3.equals("/"))
                {
                        score=score+1;
                }
                if(q4.equals("style"))
                {
                        score=score+1;
                }
                if(q5.equals("background-color"))
                {
                        score=score+1;
                }
                out.println("<html>");
                out.println("<body>");
                Class.forName("com.mysql.jdbc.Driver");
                Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb","root","root");
                PreparedStatement ps=con.prepareStatement("insert into student
values(?,?,?)");
                ps.setString(1,rollno);
                ps.setString(2,name);
                ps.setInt(3,score);
                int i=ps.executeUpdate();
                if(i>0)
                {
                        out.println("You have Completed Exam Successfully!!!");
                        out.println("<form action='ViewScore' method='post'>");
                        out.println("<input type='hidden' name='rollno'
value='"+rollno+"'>");
                        out.println("<input type='submit' value='View Score'>");
                        out.println("</form>");
                }
                else
                        out.println("Failed to insert");
                out.println("</body>");
                out.println("</html>");
```

```
		}
		catch(Exception e){}
	}

}
```

Servlet2.java

```
package com.IPLAB;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class ViewScore extends HttpServlet {
	private static final long serialVersionUID = 1L;
	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		response.setContentType("text/html;charset=UTF-8");
		try
		{
			String rollno=request.getParameter("rollno");
			PrintWriter out = response.getWriter();
			out.println("<!DOCTYPE html>");
			out.println("<html>");
			out.println("<head>");
			out.println("<title>View Score</title>");
			out.println("</head>");
			out.println("<body>");
			Class.forName("com.mysql.jdbc.Driver");
			Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb","root","root");
			Statement stmt=con.createStatement();
			String qry = "select * from student where rollno='"+rollno +"'";
			ResultSet rs=stmt.executeQuery(qry);
			while(rs.next())
			{
				out.println("<center>Hi : "+rs.getString(2)+"</center>");
				out.println("<center>Your Score is :
"+rs.getInt(3)+"</center>");
			}
			out.println("</body>");
			out.println("</html>");
		}
		catch(Exception e){}
	}

}
```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID" version="3.1">
<servlet>
<servlet-name>first</servlet-name>
<servlet-class>com.IPLAB.SubmitData</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>first</servlet-name>
<url-pattern>/SubmitData</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>second</servlet-name>
<servlet-class>com.IPLAB.ViewScore</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>second</servlet-name>
<url-pattern>/ViewScore</url-pattern>
</servlet-mapping>
</web-app>
```

Output:

Online Examination

1.What is the correct HTML element for inserting a line break?
- break
- br
- lb
- Line Break

2.What is the correct HTML Element for creating a hyperlink?
- a
- link
- href
- class

3.Which character is used to indicate an end tag?
- {
- >
- |
- /

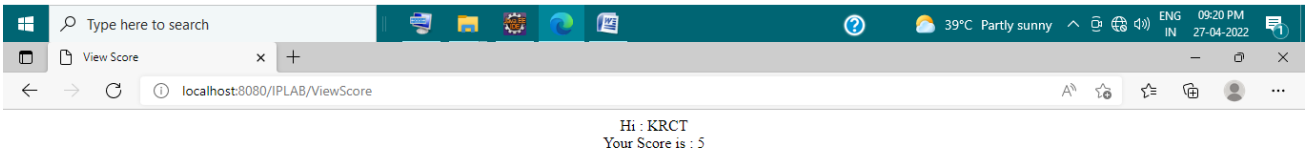
4.Which HTML attribute is used to define inline styles?
- style
- font
- styles
- class

5.Which property is used to change the background color?
- color
- bgcolor
- background-color
- bg-color

Enter Your Roll No CSB2060

Enter your name KRCT

Submit



Result:

Thus the programs for conducting online examinations were created and tested successfully.

EX.NO : 6 **LIBRARY MANAGEMENT SYSTEM USING JSP**

DATE :

Aim:

To create Web Application for Library management system using JSP. Create a database with user information and books information. The books catalogue should be dynamically loaded from the database.

Procedure:

1. Open Eclipse IDE
2. Create a project using following:
    a. File → Dynamic Web Project Enter Project Name →Click Next →Click Next →Click Generate web.xml deployment descriptor → Click Finish
3. Create a table in Mysql dbms for storing user details, book details, and book issue details.
4. Create index.html file for navigating login page or registration page.
5. Create jsp file using following:
    a. Right Click on the project name → New → jsp file → Type Jsp file Name → Finish
6. Create registration.jsp. Registration page get basic details user
7. Create Login page check the user credentials with database. If yes it will go to home.jsp.
8. Create Home page with user can Request book and show list books already requested.
9. Create Book Requested page to request a book and insert the user and book details to the database and to display on the browser
10. Run the application

Program:

Index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Library Management System | Home </title>
<style>
div.scrollmenu {
background-color: #333;
overflow: auto;
white-space: nowrap;
}

div.scrollmenu a {
display: inline-block;
color: white;
text-align: center;
padding: 14px;
text-decoration: none;
}
```

```
div.scrollmenu a:hover {
background-color: #777;
}
</style>
</head>
<body>
<h1>Welcome to Library Management System</h1>
        <div class="scrollmenu">
<a href="login.jsp">Login</a>
<a href="register.jsp">Register</a>
</div>
</body>
</html>
```

register.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Library Management System | Registration</title>
<style>
.cont{
text-align:center;
}
h1{
color:Red;
}
</style>
</head>
<body>
<h1 class="cont">User Registration</h1>
<form action="saveregister.jsp" method="GET">
        <div class="cont">
                <label>Name:</label>
                <input type="text" name="name" required><br><br>
                <label>Registration Number:</label>
                <input type="text" name="regno" required><br><br>
                <label for="dept" >Department:</label>
                <select id="selection" name="dept" >
                <option value="Select Dept">--Select Department  --</option>
                <option   value="cse">CSE</option>
                <option   value="eee">EEE</option>
                <option   value="mech">MECH</option>
                <option   value="civil">CIVIL</option>
                        <option   value="ece">ECE</option>
                </select>
                <br><br>
```

```
                <label for="class" >Class:</label>
                <select id="selection" name="ch_class" >
                <option value="Select class">--Select Class  --</option>
                <option   value="1a">I-A</option>
                        <option   value="1b">I-B</option>
                <option   value="2a">II-A</option>
                <option   value="2b">II-B</option>
                <option   value="3a">III-A</option>
                <option   value="3b">III-B</option>
                        <option   value="4a">IV-A</option>
                        <option   value="4b">IV-B</option>
                </select>
                <br><br>
                <label>E-mail:</label>
                <input type="text" name="email" required><br><br>
                <label>Password:</label>
                <input type="password" name="pwd" required><br><br>
                <button type="submit">submit</button><br><br>
                <div class="button">
                <button><a href="login.jsp">Already registered?</a></button>
                </div>
        </div>
</form>
</body>
</html>
```

saveregister.jsp

```
<%@ page import="java.sql.*" language="java" contentType="text/html; charset=ISO-8859-
1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Library Management System | Registration</title>
</head>
<body>
<%
String name = request.getParameter("name");
String regno = request.getParameter("regno");
String dept = request.getParameter("dept");
String ch_class = request.getParameter("ch_class");
String email = request.getParameter("email");
String pwd = request.getParameter("pwd");
try
{
Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/library","root","");
Statement stmt=con.createStatement();
```

```
String qry = "INSERT INTO `user`(`name`, `reg_no`, `department`, `class`, `email`,
`password`) VALUES (?,?,?,?,?,?)";
PreparedStatement ps= con.prepareStatement(qry);
ps.setString(1, name);
ps.setString(2, regno);
ps.setString(3, dept);
ps.setString(4, ch_class);
ps.setString(5, email);
ps.setString(6, pwd);
int rs = ps.executeUpdate();
if(rs>0)
{
	out.println("<center>User Registation Successfully.</center><br>");
	out.println("<center><a style='background: green;padding: 12px;color: white;'
href='index'>Home</a></center><br>");
	out.println("<center><a style='background: green;padding: 12px;color: white;'
href='login.jsp'>Login</a></center><br>");
}
else
	out.println("<center>User Registation Failed.</center>");
}
catch(Exception e){
	out.println(e);
}
%>
</body>
</html>
```

login.jsp

```
<%@ page import="java.sql.*" language="java" contentType="text/html; charset=ISO-8859-
1" pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Library Management System | Login</title>
</head>
<body style="text-align:center">
<h1 style="color:red">Login Page</h1>
<form action="logincheck.jsp">
Email id:<input type="text" name="email"><br><br>
PASSWORD:<input type="password" name="pass"><br><br>
<button type="submit" value="submit">LOGIN</button><br><br>
<a style="background: green;padding: 12px;color: white;" href="register.jsp">Want to
Register?</a>
</form>
</body>
</html>
```

Logincheck.jsp

```
<%@ page import="java.sql.*" language="java" contentType="text/html; charset=ISO-8859-
1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Library Management System | Login</title>
</head>
<body style="text-align:center">
<%
		String email = request.getParameter("email");
		String pass = request.getParameter("pass");
		try
		{
			Class.forName("com.mysql.jdbc.Driver");
			Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/library","root","");
			Statement stmt=con.createStatement();
			String qry = "SELECT * FROM `user` WHERE `email`='"+email+"'
AND `password`='"+pass+"'";
			ResultSet rs=stmt.executeQuery(qry);
			if(rs.next())
			{
		session.setAttribute("userid",rs.getString(1));
		response.sendRedirect("home.jsp");
		%>

<%
	}
	else
	{
		out.println("You are failed logged");
	}
}
catch(Exception e)
{
	out.println(e);
}
%>
</body>
</html>
```

home.jsp

```
<%@ page language="java" import="java.sql.*" contentType="text/html; charset=ISO-8859-
1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
```

```
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Library Management | Home </title>
<style type="text/css">
.container
{
	width: 50%;
margin: auto;
background: #f3f3f3b0;
border: 1px solid;
border-radius: 10px;
padding: 10px;
}
.container h3
{
text-align: center;
color: crimson;
font-size: 30px;
padding: 10px;
margin: 10px;
}
table, th, td {
border:1px solid black;
border-collapse: collapse;
padding:10px
}
</style>
</head>
<body>
<h1 style="color: red;text-align: center;">Welcome to Library Management System</h1>
<%
try
{
String userid = (String)session.getAttribute("userid");
Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/library","root","");
Statement stmt=con.createStatement();
String qry = "SELECT * FROM `user` WHERE `id`="+userid+"";
ResultSet rs=stmt.executeQuery(qry);
if(rs.next())
{
	out.println("<h2 style='color: blue;'> Hi "+rs.getString(2)+"!!!</h2>");
%>
<div class="container">
<h3 >Book Request</h3>
<form action="bookrequest.jsp">
<label>Choose the available Book name : </label>
<select name="bid">
	<%
	String qry1 = "SELECT * FROM `book` WHERE `availability`>0";
```

```
        ResultSet rs1=stmt.executeQuery(qry1);
        while(rs1.next())
        {
        %>
        <option value="<% out.print(rs1.getInt(1)); %>"><% out.println(rs1.getString(2));
%></option>
        <%
        }
        %>
</select><br><br>
<input type="hidden" name="userid" value="<% out.print(userid);%>">
<input type="submit" value="Request Book" style="background: brown;color:
white;padding: 10px;border-radius: 10px;">
</form>
</div>
<br>
<br>
<div class="container">
<h3 >List of Book Requested</h3>
<table style="margin-left:auto;margin-right:auto;">
        <thead>
                <tr>
                        <th>S.no</th>
                        <th>Name of the book</th>
                        <th>Date</th>
                </tr>
        </thead>
        <tbody>
                <%
                ResultSet rs2=stmt.executeQuery("SELECT * FROM `book_issue` WHERE
`user_name`="+userid+"");
                //out.println(rs2.first());
                if(rs2.next())
                {
                        int i=1;
                        do
                        {
                        %>
                        <tr>
                                <td><%out.println(i); %></td>
                                <td><%out.println(rs2.getString(4)); %></td>
                                <td><%out.println(rs2.getString(5)); %></td>
                        </tr>
                        <%
                        i++;
                        }while(rs2.next());
                }
                else
                {
                %>
                        <tr>
```

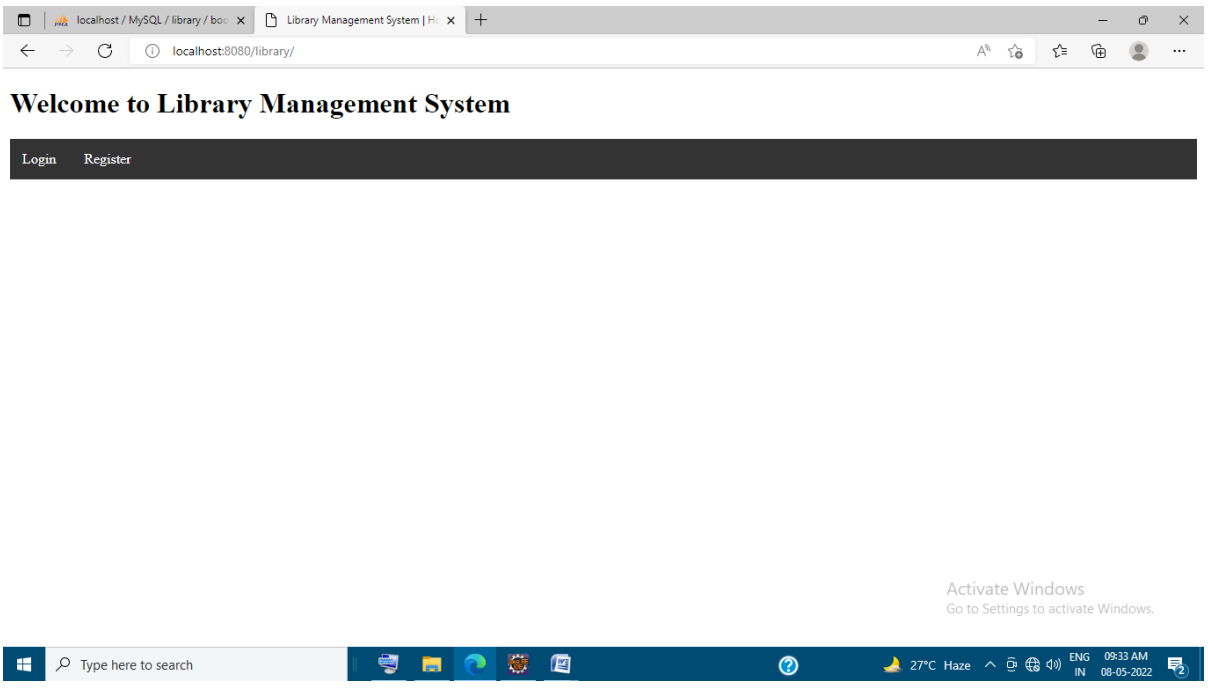
```
                        <td colspan="3">No books requested</td>

                    </tr>
                <%
                }
                %>
        </tbody>
</table>
</div>

<%
}
}
catch(Exception e){out.println(e);}
%>
</body>
</html>
```

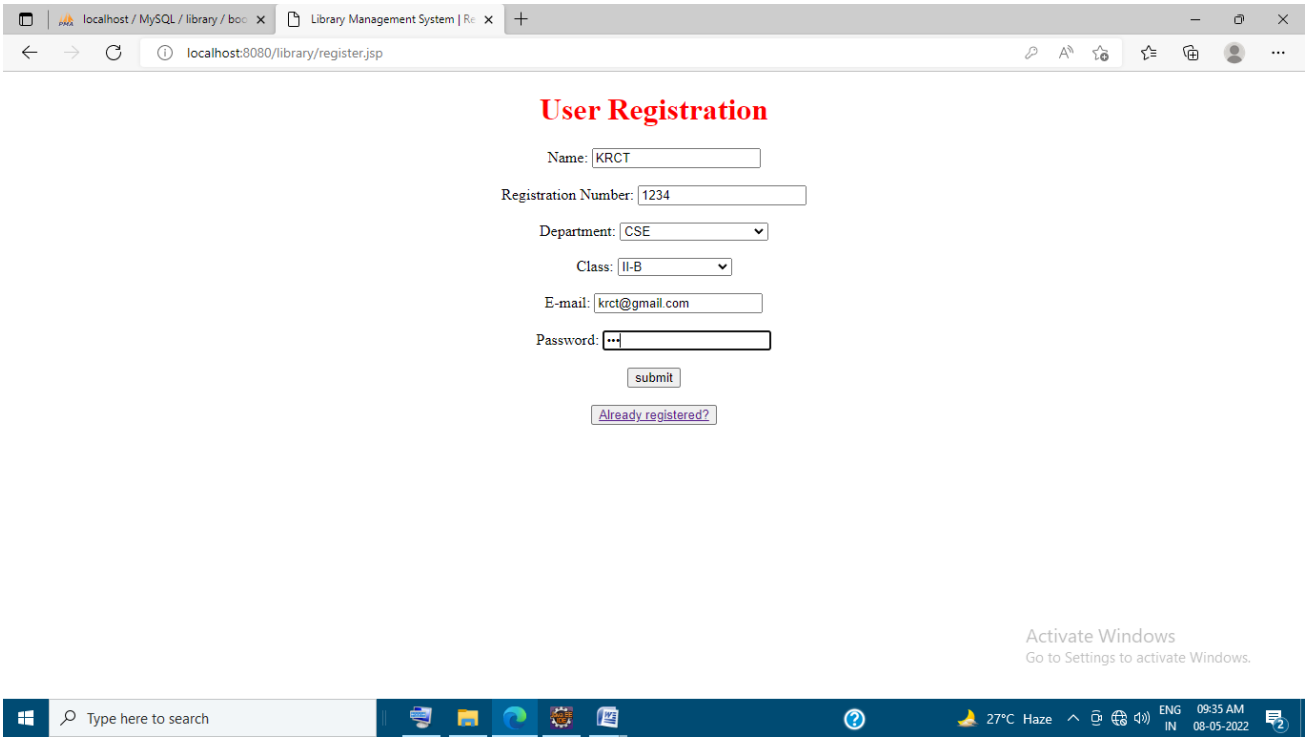
bookrequest.jsp

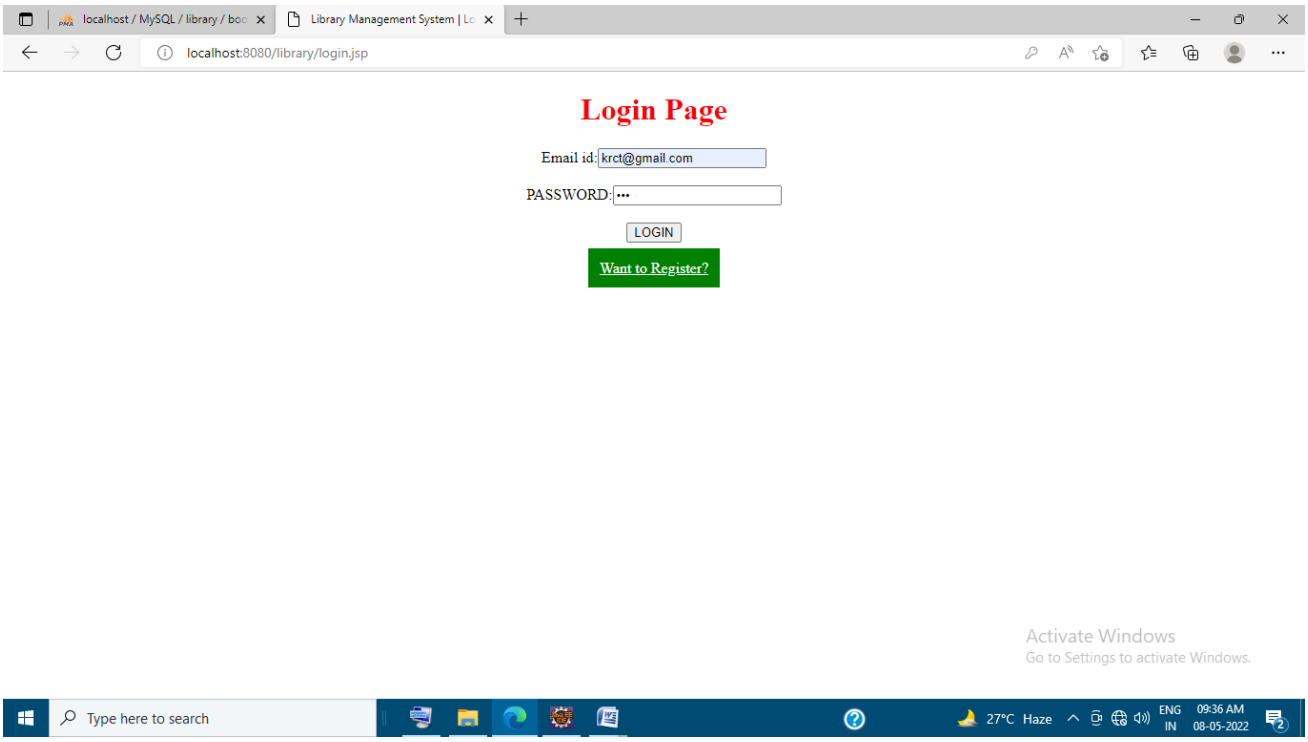
```
<%@ page language="java" import="java.sql.*" contentType="text/html; charset=ISO-8859-
1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        <%
        try
        {
        Integer bid = Integer.parseInt(request.getParameter("bid"));
        Integer userid = Integer.parseInt(request.getParameter("userid"));
        java.util.Date utilDate = new java.util.Date();
        Date sqlDate = new Date(utilDate.getTime());
        try
        {
                Class.forName("com.mysql.jdbc.Driver");
                Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/library","root","");
                Statement stmt=con.createStatement();
                String qry = "SELECT * FROM `book` WHERE `book_id`="+bid+"";
                ResultSet rs=stmt.executeQuery(qry);
                if(rs.next())
                {
                        int tot_book = rs.getInt(4);
                        tot_book=tot_book-1;
```

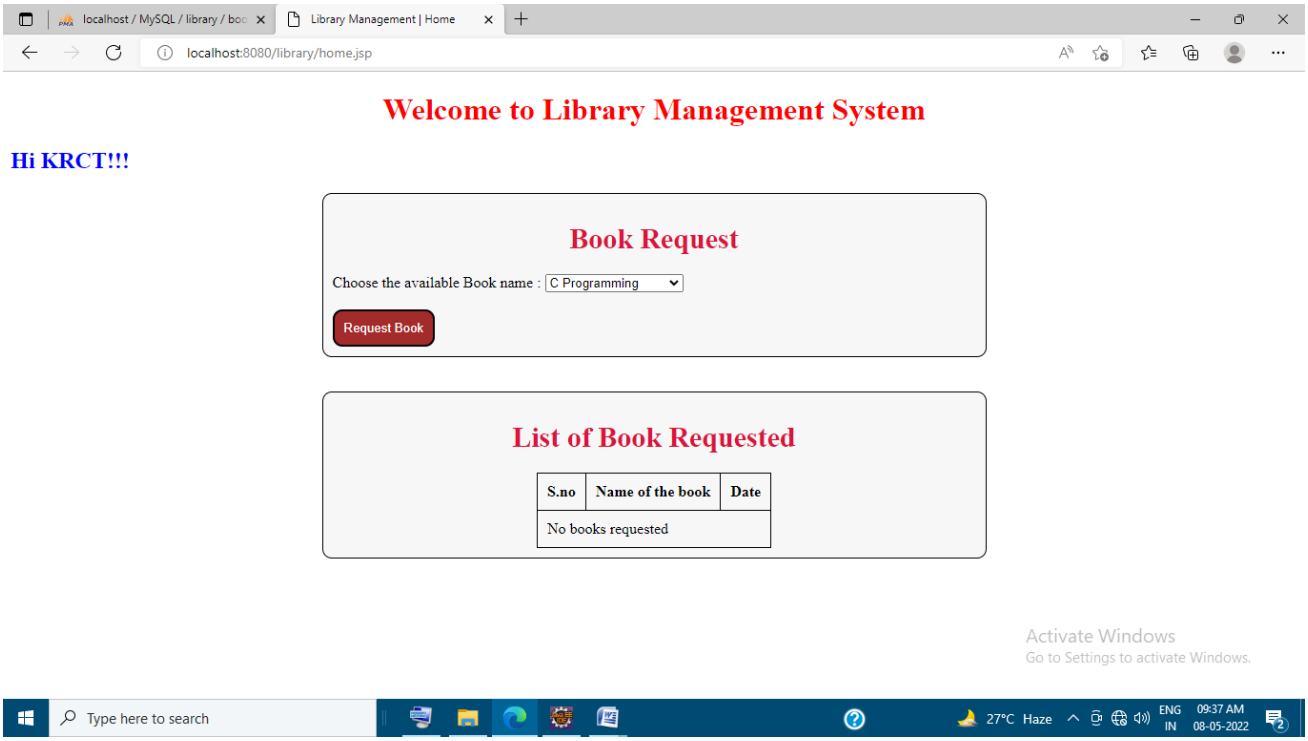
```
                        PreparedStatement ps= con.prepareStatement("UPDATE `book` SET
`availability`="+tot_book+" WHERE `book_id`="+bid+"");
                        ps.executeUpdate();
                        PreparedStatement ps1= con.prepareStatement("INSERT INTO
`book_issue`( `b_id`, `user_name`, `book_name`, `date`) VALUES (?,?,?,?)");
                        ps1.setInt(1, bid);
                        ps1.setInt(2,userid);
                        ps1.setString(3, rs.getString(2));
                        ps1.setDate(4, sqlDate);
                        int ur = ps1.executeUpdate();
                        if(ur>0)
                        {

        %>
                <h4>You are Successfully Requested a Book</h4>
                <a style='background: green;padding: 12px;color: white;'
href='home.jsp'>Home</a>
        <%

                        }
                }
        }
        catch(Exception e){out.println(e);}
        }catch(Exception e){out.println(e);}
        %>
</body>
</html>
```

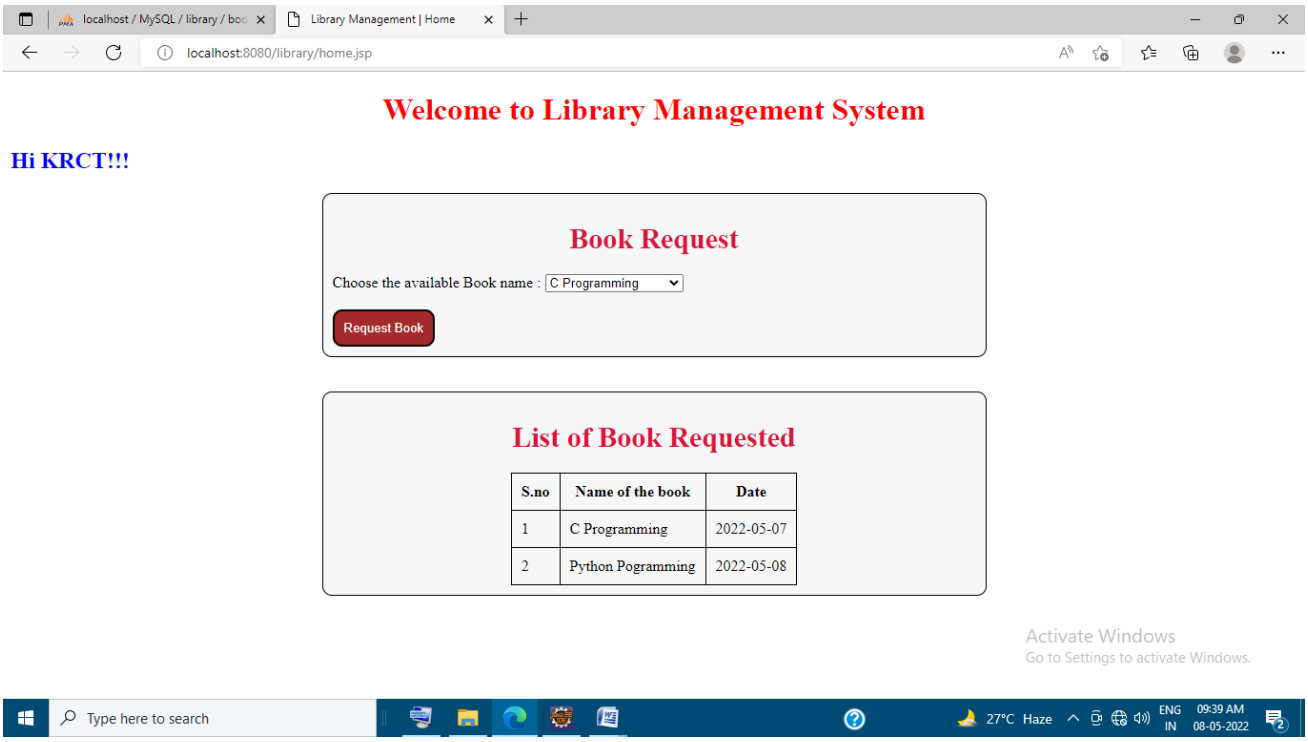
Output:




localhost / MySQL / library / boo
Library Management System | Re
localhost:8080/library/register.jsp
User Registration
Name: KRCT
Registration Number: 1234
Department: CSE
Class: II-B
E-mail: krct@gmail.com
Password:
submit
Already registered?
Activate Windows
Go to Settings to activate Windows.
Type here to search
27°C Haze
ENG
IN
09:35 AM
08-05-2022


localhost / MySQL / library / boo
Library Management System | Lo
localhost:8080/library/login.jsp
Login Page
Email id: krct@gmail.com
PASSWORD:
LOGIN
Want to Register?
Activate Windows
Go to Settings to activate Windows.
Type here to search
27°C Haze
ENG
IN
09:36 AM
08-05-2022





Result:

Thus the programs for online library management system using jsp and session were created and tested successfully.

EX.NO : 7(a) **PHP REGULAR EXPRESSION**

DATE :

Aim:

To write a PHP program to validate the form using regular expression

Procedure:

1. Create a form using html for getting email from user at server
2. Create regular expression in php file for validating email at server
3. Run the html file and pass email id
4. Check your email id valid or invalid

Program:

email.html

```
<!DOCTYPE html>
<html>
	<head>
		<title>Email Validation</title>
		<style>
		h1,div{text-align:center;}
		</style>
	</head>
	<body>
		<h1>Email Validation using Regular Expression</h1>
		<div>
		<form action="emailvalidate.php" method="get">
		Email:<input type="text" name="email"><br><br>
			<input type="submit" value="Submit">
		</form>
		</div>
	</body>
</html>
```

emailvalidate.php

```
<?php
$email=$_GET['email'];
functionvalid_email($str)
{
	$patt="/^([a-z0-9\+_\-]+)(\.[a-z0-9\+_\-]+)*@([a-z0-9\-]+\.)+[a-z]{2,6}$/ix";
	return (!preg_match($patt, $str)) ? FALSE : TRUE;
}
if(valid_email($email))
{
	echo "valid email address.";
}
else
{
	echo "Invalid email address.";
}?>
```

Output:

Result:

Thus a program to validate form data using regular expression was created and tested successfully.

EX.NO : 7(b) **PHP DATABASE ACCESS**

DATE :

Aim:

To write a PHP program to stores a form data into database

Procedure:

1. Create table student with rollno, name and age attributsin mysql database in the following url:
   http://localhost/phpmyadmin
2. Create a form using html for collecting student details from the user
3. Create a php file for storing student details
4. Pass the student details from html form to php file
5. Check the database after storing details

Program:

insert.html

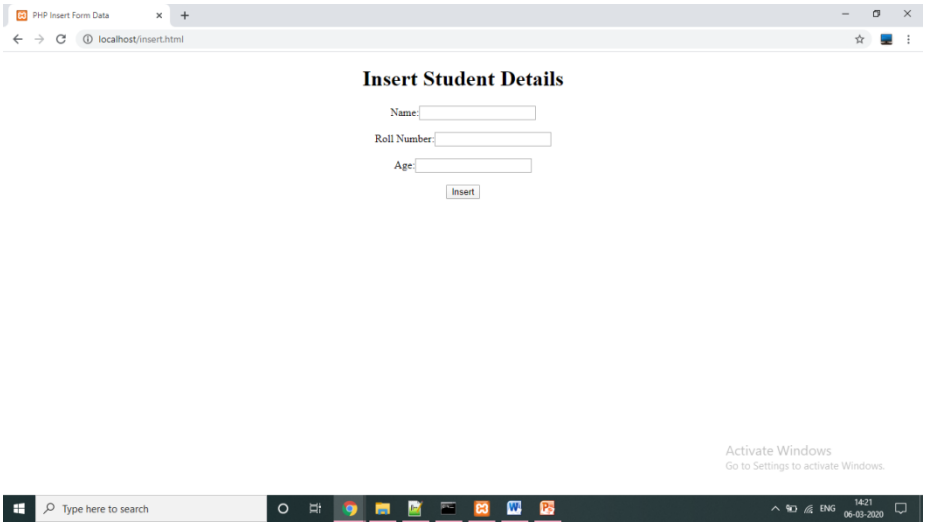
```
<!DOCTYPE html>
<html>
	<head>
		<title>PHP Insert Form Data</title>
		<style>
		h1,div
		{
			text-align:center;
		}
		</style>
	</head>
	<body>
	<h1>Insert Student Details</h1>
	<div>
	<form name="myform" action="insert.php" method="get">
	Name:<input type="text" name="uname"><br><br>
	Roll Number:<input type="text" name="uroll"><br><br>
	Age:<input type="text" name="uage"><br><br>
	<input type="submit" value="Insert">
	</form>
	</div>
	</body>
</html>
```

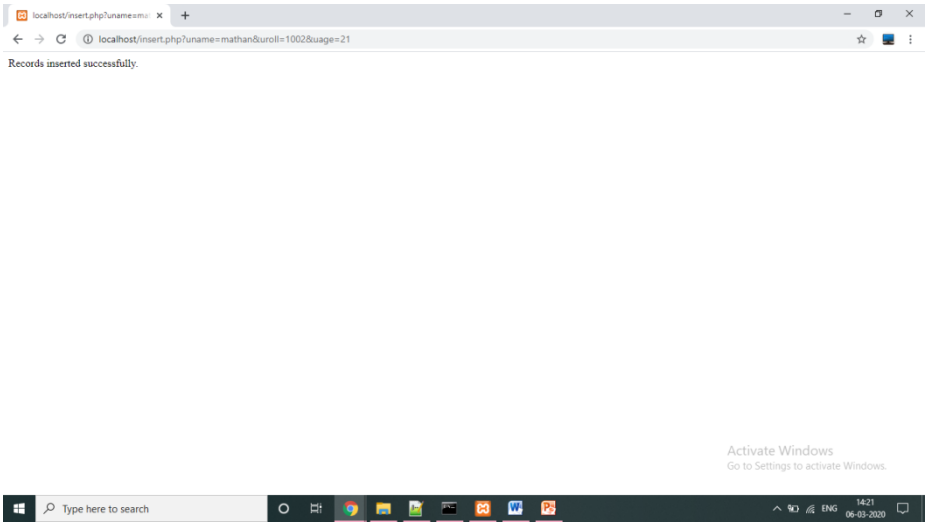
insert.php

```
<?php
$rollno=$_GET['uroll'];
$name=$_GET['uname'];
$age=$_GET['uage'];
// Create connection
$conn = new mysqli("localhost", "", "", "test");
```

```
// Check connection
if ($conn->connect_error)
{
die("Connection failed:" . $conn->connect_error);
}

$sql = "INSERT INTO STUDENT VALUES('$rollno','$name','$age')";

if(mysqli_query($conn, $sql))
{
echo "Records inserted successfully.";
}
else
{
echo "ERROR: Could not execute $sql. " . mysqli_error($conn);
}
$conn->close();
?>
```

Output:





Result:

Thus a program to validate form data using regular expression was created and tested successfully.

EX.NO : 8 **USER AUTHENTICATION PORTAL USING PHP**

DATE :

Aim:

To write a PHP program to create a project for User Authentication Portal where users can sign up, log in and modify their admin panel.

Procedure:

1. Create table student with userid, username, password, name, regno and rolein mysql database in the following url:
   http://localhost/phpmyadmin
2. Create a index.php file for login form and submit the data into the same form
3. After validation with database then users are redirected to home.php.
4. Create home.php file for handling three types of users.
5. If user is a admin then provide registration of other users
6. Create a form using html for collecting user details from the user and store it in database using admin user only.
7. Create a php file for storing user details
8. If user is a student or staff then display the user details only.

Program:

db.php

```
<?php
session_start();
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "userauth";

// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
die("Connection failed: " . mysqli_connect_error());
}
?>
```

index.php

```
<?php
include("db.php");
$error="";
$uname = $pass = "";
if ($_SERVER["REQUEST_METHOD"] == "POST")
{
   $error="";
if (empty($_POST["uname"]))
   {
      $error .= "Please Enter the Username<br>";
   }
else
```

```
   {
      $uname = $_POST["uname"];
   }
if (empty($_POST["pass"]))
   {
      $error .= "Please Enter the Password";
   }
else
   {
      $pass= $_POST["pass"];
   }
   $sql = "SELECT * FROM `user` WHERE `username`='".$uname."' AND
`password`='".$pass."'";
   $result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0)
   {
while($row = mysqli_fetch_assoc($result))
      {
         $_SESSION["user"] = $row["username"];
         $_SESSION["role"] = $row["role"];
header("Location:home.php");
      }
   }
}
?>
<!DOCTYPE html>
<html>
<head>
<title>User Authentication Portal</title>
<style>
body
         {
background:#5d9bed;
         }
         h1
         {
color:white;
text-align:center;
         }
         .container
         {
margin:auto;
width:40%;
border:1px white solid;
background:white;
padding:10px;
border-radius: 18px;
         }
         .container h2
         {
text-align:center;
```

```
        }
        .full
        {
width:100%;
padding:10px;
        }
        .half
        {
width:50%;
float:left;
        }
        .clear
        {
clear: both;
        }
        .error
        {
color:red;
        }
</style>
</head>
<body>
<h1>Welcome to User Authentication Portal</h1>
<div class="container">
<div class="full"><h2>Login form</h2></div>
<span class="error"><?php echo $error;?></span>
<form action="<?php echo htmlspecialchars($_SERVER['PHP_SELF']);?>"
class="loginform" method="POST">
<div class="full"><div class="half" style="text-align: right;"><label for="">Enter Username
: </label></div><div class="half"><input type="text" name="uname"></div><div
class="clear"></div></div>
<div class="full"><div class="half" style="text-align: right;"><label for="">Enter Password :
</label></div><div class="half"><input type="password" name="pass"></div><div
class="clear"></div></div>
<div class="full" style="text-align:center;"><input type="submit" value="Login">
<input type="reset" value="Reset"></div>
<div class="clear"></div>
</form>
</div>
</body>
</html>
```

home.php

```
<?php
include("db.php");
if($_SESSION["role"]=="admin")
{
   $success=$error="";
if ($_SERVER["REQUEST_METHOD"] == "POST")
   {
```

```
if (empty($_POST["uname"]))
        {
           $error .= "Please Enter the Username";
        }
else
        {
           $uname = $_POST["uname"];
        }
if (empty($_POST["pass"]))
        {
           $error .= "Please Enter the Username";
        }
else
        {
           $pass = $_POST["pass"];
        }
if (empty($_POST["role"]))
        {
           $error .= "Please Enter the Password";
        }
else
        {
           $role= $_POST["role"];
        }
if (empty($_POST["name"]))
        {
           $error .= "Please Enter the Password";
        }
else
        {
           $name= $_POST["name"];
        }
if (empty($_POST["regno"]))
        {
           $error .= "Please Enter the Password";
        }
else
        {
           $regno= $_POST["regno"];
        }
if($error=="")
        {
           $sql = "INSERT INTO `user`(`username`, `password`, `name`, `regno`, `role`)
VALUES ('$uname','$pass','$name','$regno','$role')";
           $result = mysqli_query($conn, $sql);
if ($conn->query($sql) === TRUE)
           {
              $success= "New record created successfully";
           } else
           {
echo "Error: " . $sql . "<br>" . $conn->error;
```

```
            }
        }
        $conn->close();
    }
}
?>
<!DOCTYPE html>
<html>
<head>
<title></title>
<style>
body
            {
background:#f44336;
            }
            h1
            {
color:white;
text-align:center;
            }
            .container
            {
margin:auto;
width:40%;
border:1px white solid;
background:white;
padding:10px;
border-radius: 18px;
            }
            .container h2
            {
text-align:center;
            }
            .full
            {
width:100%;
padding:10px;
            }
            .half
            {
width:50%;
float:left;
            }
            .clear
            {
clear: both;
            }
            .error
            {
color:red;
            }
```

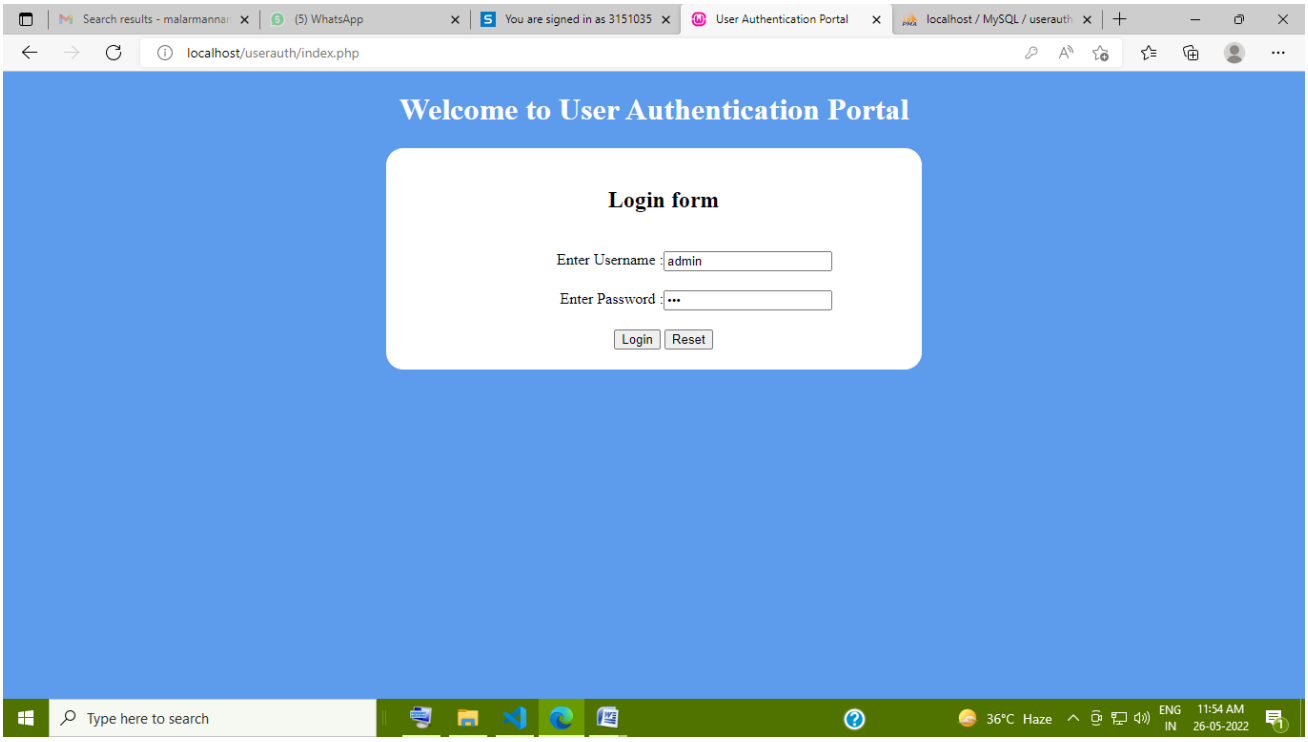
```
        .success
        {
color:green;
        }
</style>
</head>
<body>
<div class="container">
<div class="full" style="text-align: right;">
<a href="logout.php" style="background: #0b8c0b;padding: 10px;color: white;">Logout</a>
</div>
<?php
if($_SESSION["role"]=="admin")
      {
      ?>
<div class="full"><h5>You are Logged in as Admin</h5></div>
<div class="full"><h2>Registration form</h2></div>
<span class="success"><?php echo $success;?></span>
<span class="error"><?php echo $error;?></span>
<form action="<?php echo htmlspecialchars($_SERVER['PHP_SELF']); ?>"
method="POST">
<div class="full">
<div class="half" style="text-align: right;">
<label for="">Enter Username : </label>
</div>
<div class="half">
<input type="text" name="uname" id="">
</div>
<div class="clear"></div>
</div>
<div class="full">
<div class="half" style="text-align: right;">
<label for="">Enter Password : </label>
</div>
<div class="half">
<input type="password" name="pass" id="">
</div>
<div class="clear"></div>
</div>
<div class="full">
<div class="half" style="text-align: right;">
<label for="">Enter Name : </label>
</div>
<div class="half">
<input type="text" name="name" id="">
</div>
<div class="clear"></div>
</div>
<div class="full">
<div class="half" style="text-align: right;">
<label for="">Enter Register No : </label>
```

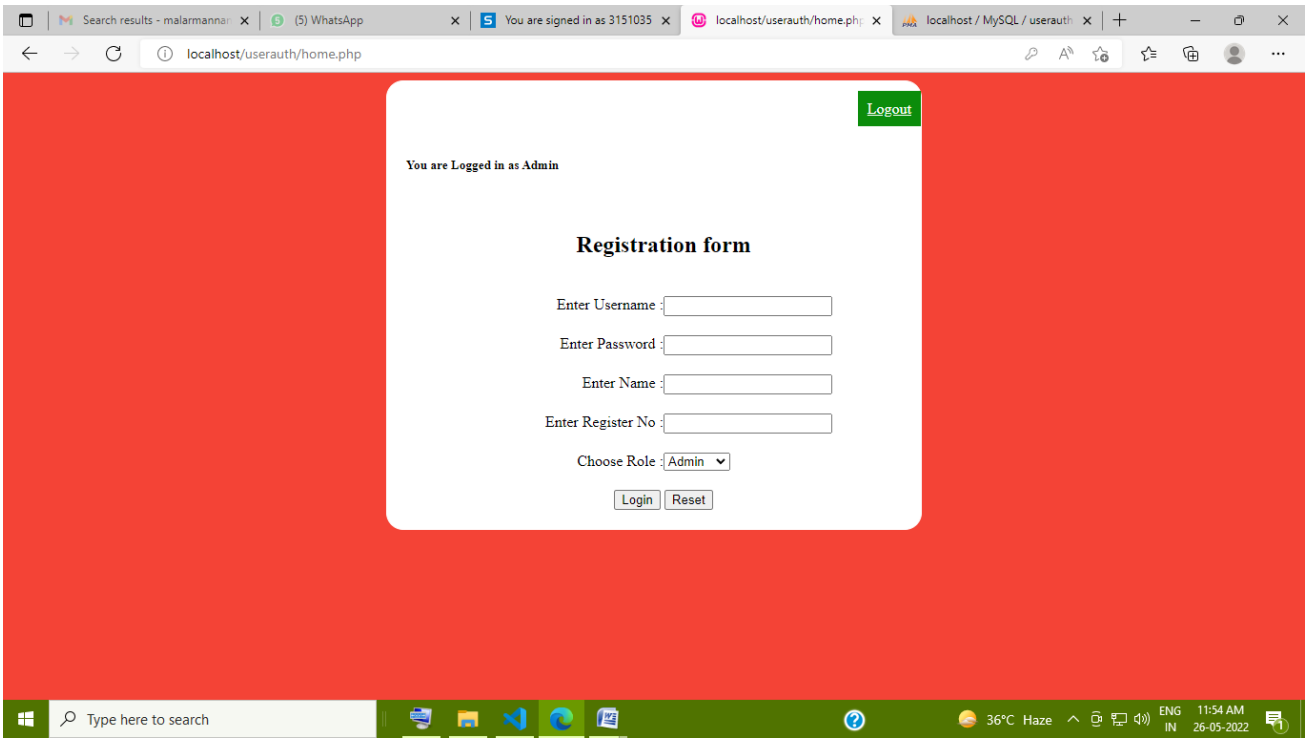
```
</div>
<div class="half">
<input type="text" name="regno" id="">
</div>
<div class="clear"></div>
</div>
<div class="full">
<div class="half" style="text-align: right;">
<label for="">Choose Role : </label>
</div>
<div class="half">
<select name="role">
<option value="admin">Admin</option>
<option value="student">Student</option>
<option value="staff">Staff</option>
</select>
</div>
<div class="clear"></div>
</div>
<div class="full" style="text-align:center;">
<input type="submit" value="Login">
<input type="reset" value="Reset">
</div>
</form>
<?php
	}
if($_SESSION["role"]=="student" || $_SESSION["role"]=="staff")
	{
echo "<h3>User ID : ". $_SESSION["user"]."</h3><br>";
echo "<h3>You are logged in as a ". $_SESSION["role"]."</h3>";
	}
	?>
</div>
</body>
</html>
```

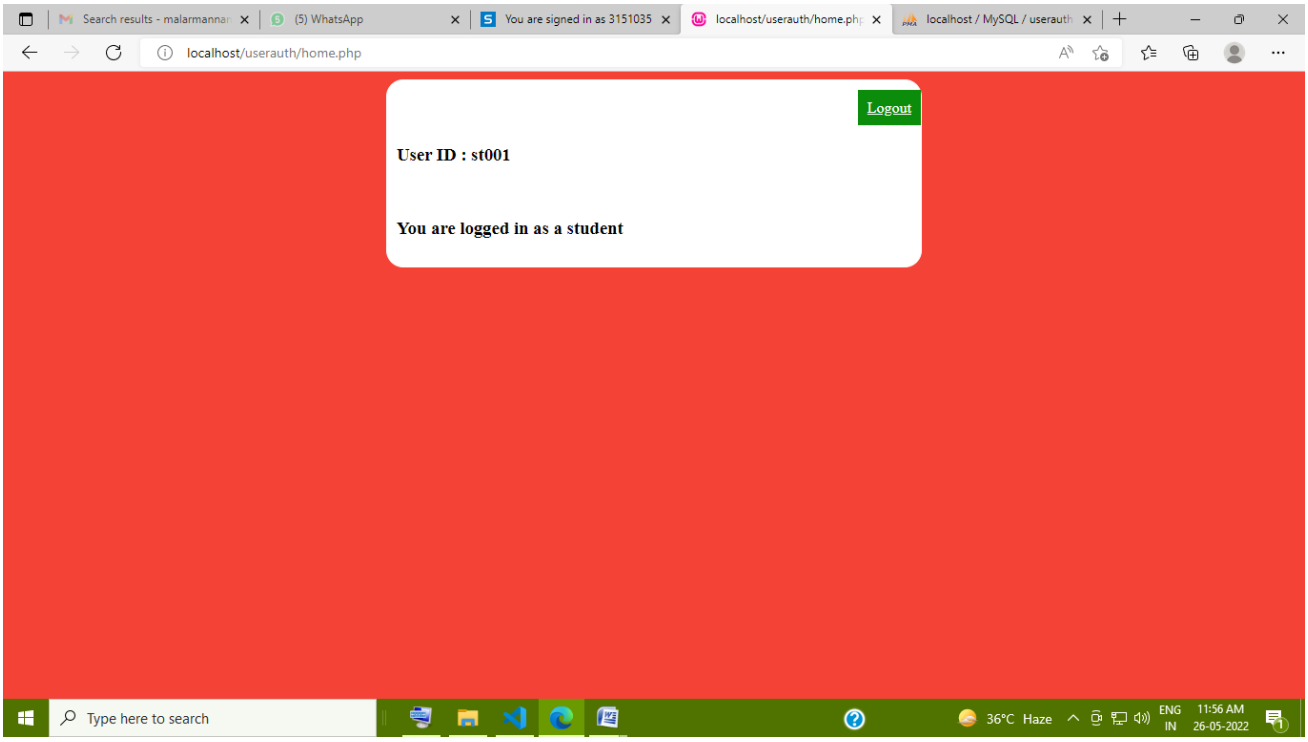
logout.php

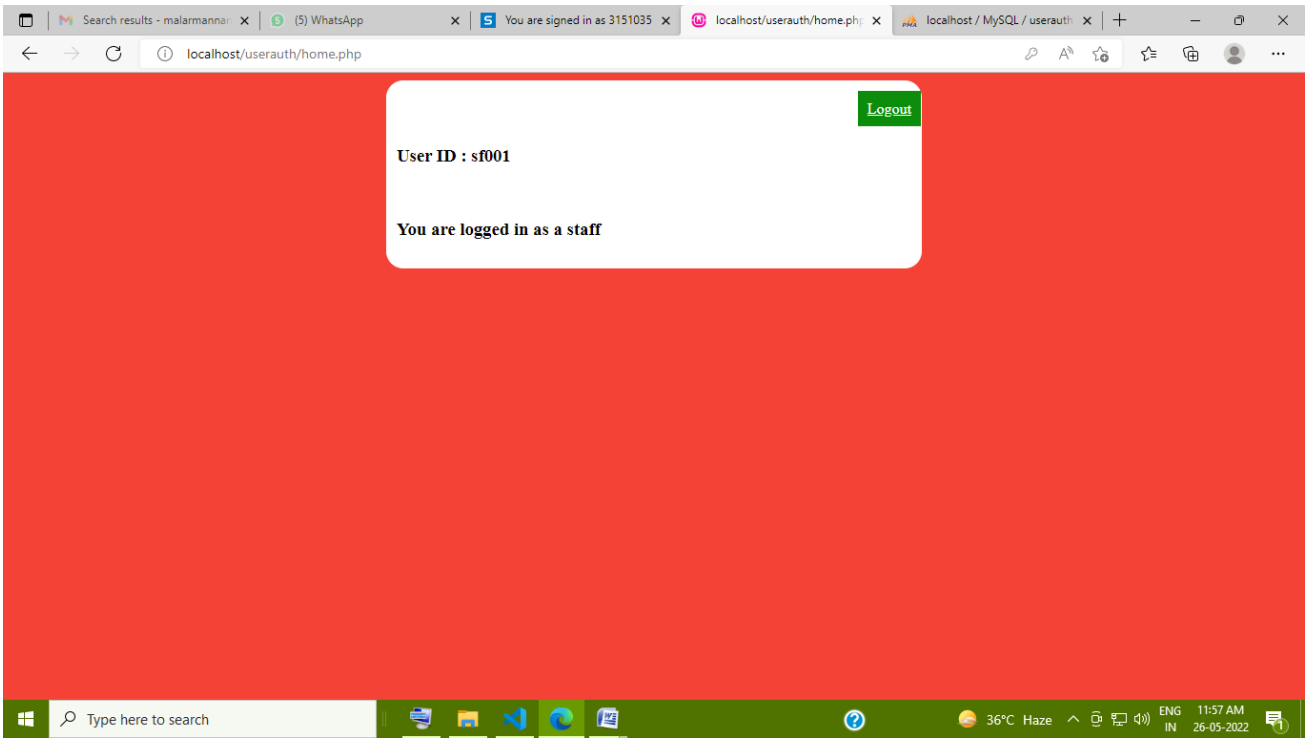
```
<?php
include("db.php");
session_destroy();
header("Location:index.php");
?>
```

Output:


Search results - malarmannan
(5) WhatsApp
You are signed in as 3151035
User Authentication Portal
localhost / MySQL / userauth
localhost/userauth/index.php
Welcome to User Authentication Portal
Login form
Enter Username : admin
Enter Password :
Login
Reset
Type here to search
36°C Haze
ENG IN
11:54 AM
26-05-2022


Search results - malarmannan
(5) WhatsApp
You are signed in as 3151035
localhost/userauth/home.php
localhost / MySQL / userauth
localhost/userauth/home.php
Logout
You are Logged in as Admin
Registration form
Enter Username :
Enter Password :
Enter Name :
Enter Register No :
Choose Role : Admin
Login
Reset
Type here to search
36°C Haze
ENG IN
11:54 AM
26-05-2022





Result:

Thus a PHP program for User Authentication Portal where users can sign up, log in and modify their admin panel was demonstrated successfully.

EX.NO : 9 **EMPLOYEE APPLICATION USING NODEJS AND MYSQL**

DATE :

Aim:

To create Web Application for Employee Details (inserting, deleting, and updating records) using Node Js and MYSQL

Procedure:

1. Create table called “profile” with ‘id’,’ name’,’ address’ and ‘salary’ as columns in mysql database in the following url:
   http://localhost/phpmyadmin
2. Create a folder called ‘employee’ and create a app.js file
3. Create dependency file for a employee project open terminal in visual studio code application and run the following code
   npm init
4. After init, command prompt will ask for basic details for a project and press enter
5. To import the required packages first install using following commands
   npm install express
   npm install --save body-parser
   npm install --save mysql
   npm install --save nodemon
   npm install --save pug
6. In app.js file, import the required files
7. Create a connection using createConnection function to connect my sql database
8. Create a createemp.pug file for user to enter the employee details
9. To process the request, create a get and post methods to handle data
10. To view the employee details, create new search.pug file to display the employee details

Program:

app.js

```
var exp = require("express")
var app = exp();
var bodyParser = require('body-parser');
var mysql = require('mysql');
var con = mysql.createConnection({
host: process.env.MYSQL_HOST_IP,
user: "root",
password: "",
database: "nmydb"
  });
con.connect(function(err){
if(err) throw err
console.log("Connected")
  });

app.set("view engine","pug")
app.set("views","./views")
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: true }));
app.get('/',function(req,res){
```

```
res.render("createemp.pug");
})
app.post('/create',function(req,res){
   var qry = "INSERT INTO `profile`(`id`, `name`, `address`, `salary`) VALUES
("+mysql.escape(req.body.id)+","+mysql.escape(req.body.name)+","+mysql.escape(req.body
.address)+","+mysql.escape(req.body.salary)+")";
con.query(qry,function(err,result){
if(err) throw err
res.send("1 Record successfully Inserted")
   })
});
app.post('/search',function(req,res){
   var qry = "SELECT `id`, `name`, `address`, `salary` FROM `profile` WHERE
`id`="+mysql.escape(req.body.id)+"";
con.query(qry,function(err,result){
if(err) throw err
res.render("search.pug",{
id : result[0].id,
name : result[0].name,
address : result[0].address,
salary : result[0].salary
      });
   })
});
app.post('/update',function(req,res){
   var qry = "UPDATE `profile` SET
`name`="+mysql.escape(req.body.name)+",`address`="+mysql.escape(req.body.address)+",`s
alary`="+mysql.escape(req.body.salary)+" WHERE `id`="+mysql.escape(req.body.id)+"";
con.query(qry,function(err,result){
if(err) throw err
res.send("1 Record Updaated Successfully")
   })
});
app.post('/delete',function(req,res){
var qry = "DELETE FROM `profile` WHERE `id`="+req.body.id+"";
con.query(qry,function(err,result){
if(err) throw err
res.send("1 Record Deleted successfully")
   })
});
app.listen(8080)
```

createemp.pug

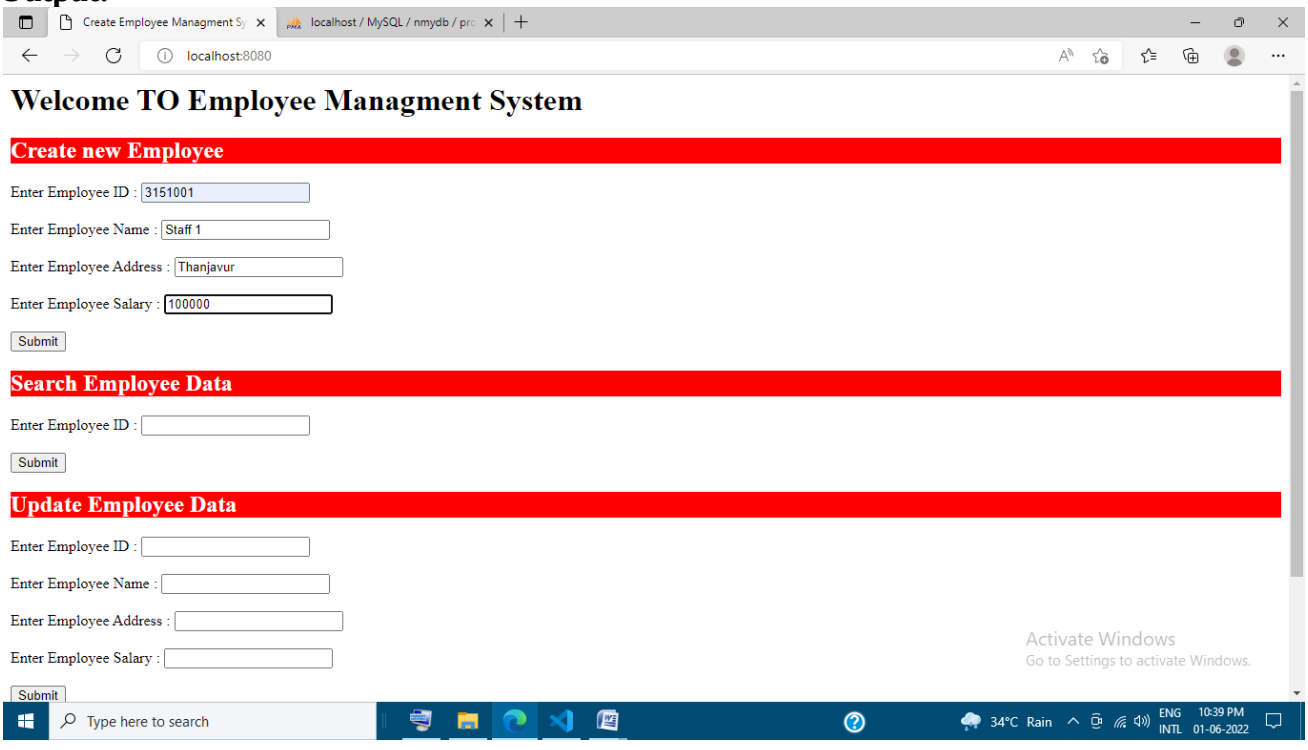
```
html
head
title Create Employee Managment System
body
h1 Welcome TO Employee Managment System
h2(style="background:red;color:white") Create new Employee
form(action="/create", method="post")
```

```
label(for="emp_id") Enter Employee ID :
input(type="text", name="id")
br
br
label(for="name") Enter Employee Name :
input(type="text", name="name")
br
br
label(for="address") Enter Employee Address :
input(type="text", name="address")
br
br
label(for="salary") Enter Employee Salary :
input(type="text", name="salary")
br
br
input(type="submit", value="Submit")
h2(style="background:red;color:white") Search Employee Data
form(action="/search", method="post")
label(for="emp_id") Enter Employee ID :
input(type="text", name="id")
br
br
input(type="submit", value="Submit")
h2(style="background:red;color:white") Update Employee Data
form(action="/update", method="post")
label(for="emp_id") Enter Employee ID :
input(type="text", name="id")
br
br
label(for="name") Enter Employee Name :
input(type="text", name="name")
br
br
label(for="address") Enter Employee Address :
input(type="text", name="address")
br
br
label(for="salary") Enter Employee Salary :
input(type="text", name="salary")
br
br
input(type="submit", value="Submit")
h2(style="background:red;color:white") Search Employee Data
form(action="/delete", method="post")
label(for="emp_id") Enter Employee ID :
input(type="text", name="id")
br
br
input(type="submit", value="Submit")
```

search.pug

```
html
head
title Create Employee Managment System
body
h1 Welcome TO Employee Managment System
label(for="emp_id") Enter Employee ID :
span #{id}
br
br
label(for="name") Enter Employee Name :
span=name
br
br
label(for="address") Enter Employee Address :
span=address
br
br
label(for="salary") Enter Employee Salary :
span=salary
```

Output:



Search Employee Data

Enter Employee ID : 3151001

Submit

Welcome TO Employee Managment System

Enter Employee ID :3151001

Enter Employee Name : Staff 1

Enter Employee Address : Thanjavur

Enter Employee Salary : 100000

Update Employee Data

Enter Employee ID : 3151001

Enter Employee Name : Staff 111111

Enter Employee Address : Thanjavur 11111

Enter Employee Salary : 11111111

Submit

1 Record Updaated Successfully

Delete Employee Data

Enter Employee ID : 3151001

Submit

1 Record Deleted successfully

Result:

Thus an application for Employee Details (inserting, deleting, and updating records) using Node Js and MYSQL was demonstrated successfully.

EX.NO : 10 **TICKET RESERVATION APPLICATION USING ANGULAR JS AND MYSQL**

DATE :

Aim:

To create Web Application for Ticket Reservation using Angular JS and MYSQL

Procedure:

1. Create table 'ticket' with 'id', 'name', 'address' and 'salary' in mysql database in the following url:
   http://localhost/phpmyadmin
2. Create index.html file and include angular.js file using script tag.
3. In html tag add a attribute ng-app="myApp".
4. In body tag add attribute ng-controller="myCtrl".
5. Add attribute ng-model to all form input elements.
6. Insert script tag and get the form values and send all form values to save.php file.
7. In save.php file receive all form values and store all values to database.
8. After data is stored in database, send the response back to html page.
9. If response was received then display the success message.

Program:

app.js

```
<!DOCTYPE html>
<html ng-app="myApp">
<head>
<title>Ticket Reservation Application</title>
<script src="js/angular.js"></script>
</head>
<body ng-controller="myCtrl">
<h1>Ticket Reservation Application</h1>
<form id="myform" method="post">
<label for="name">Name</label>
<input type="text" ng-model="name"><br><br>
<label for="email">Email id</label>
<input type="email" ng-model="email"><br><br>
<label for="phone">Phone </label>
<input type="text" ng-model="phone"><br><br>
<label for="noofticket">No of Ticket </label>
<input type="text" ng-model="noofticket"><br><br>
<label for="destination">Destination </label>
<select  ng-model="selectedDest" ng-options="x.c for x in destination">
</select><br><br>
<label for="amount">Amount </label>
<span>{{amount=selectedDest.rate*noofticket}}</span>
<br><br>
<button ng-click="save()">Book Ticket</button>
<h1>{{myWelcome}}</h1>
</form>
</body>
<script>
var app = angular.module('myApp', []);
```

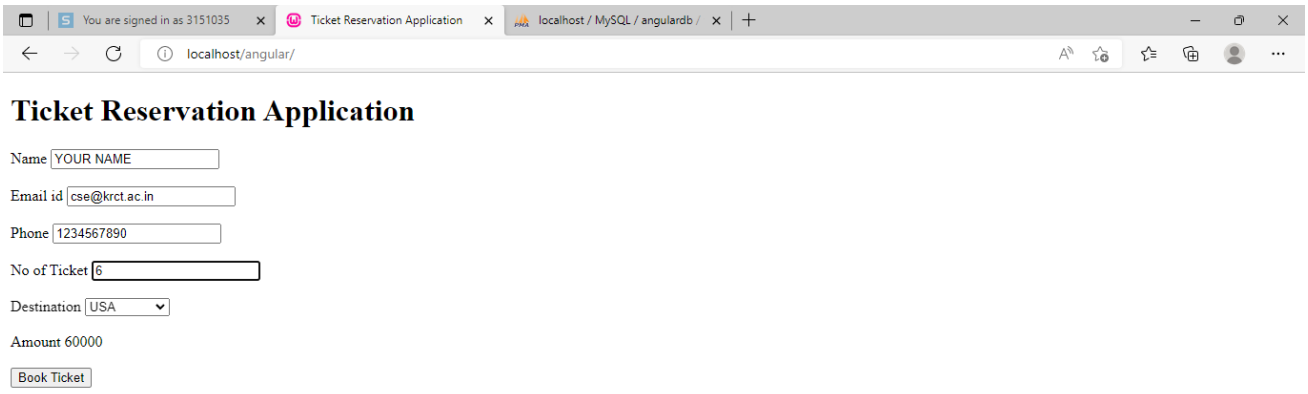
```
app.controller('myCtrl', function($scope,$http) {
        $scope.destination = [{
           "c":"USA",
           "rate": 10000
        }, {
           "c":"RUSSIA",
           "rate": 20000
        }, {
           "c":"ENGLAND",
           "rate": 30000
        }];
        $scope.selectedDest = $scope.destination[0];
        $scope.save = function () {
           $http.post(
              "save.php",
              {
                 'name':$scope.name,
                 'email': $scope.email,
                 'phone':$scope.phone,
                 'noofticket':$scope.noofticket,
                 'destination' : $scope.selectedDest.c,
                 'amount': $scope.amount
              },
              'application/x-www-form-urlencoded;charset=utf-8;'
           ).then(function mySuccess(response) {
              $scope.myWelcome = response.data;
              $scope.name = "";
              $scope.email = "";
              $scope.phone = "";
              $scope.noofticket = "";
              $scope.amount = "";
           });
        }
     });
</script>
</html>
```

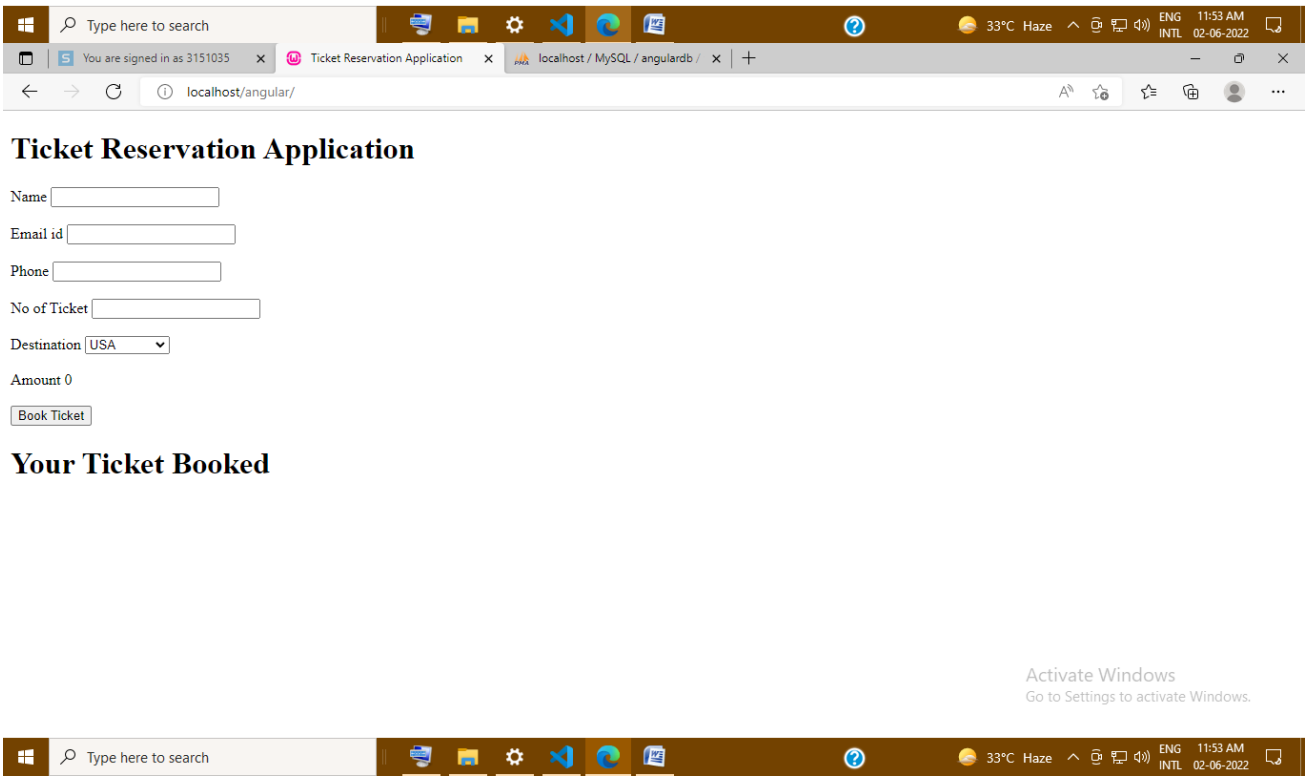
Save.php

```
<?php
$con = new mysqli("localhost", "root", "", "angulardb");
if (mysqli_connect_errno()) {
echo "Failed to connect to MySQL: " . mysqli_connect_error();
exit();
}
$data = json_decode(file_get_contents("php://input"));
$name = mysqli_real_escape_string($con,$data->name);
$email = mysqli_real_escape_string($con,$data->email);
$phone = mysqli_real_escape_string($con,$data->phone);
$noofticket = mysqli_real_escape_string($con,$data->noofticket);
$destination = mysqli_real_escape_string($con,$data->destination);
```

```
$amount = mysqli_real_escape_string($con,$data->amount);
$sql="INSERT INTO `ticket`(`name`, `email`, `phone`, `noofticket`, `destination`, `amount`)
VALUES ('$name','$email','$phone','$noofticket','$destination','$amount')";
if ($con -> query($sql)) {
echo("Your Ticket Booked");
}
else
{
echo("Something issue".$con->error);
}
?>
```

Output:





Result:

Thus web Application for Ticket Reservation using Angular JS and MYSQL was demonstrated successfully.