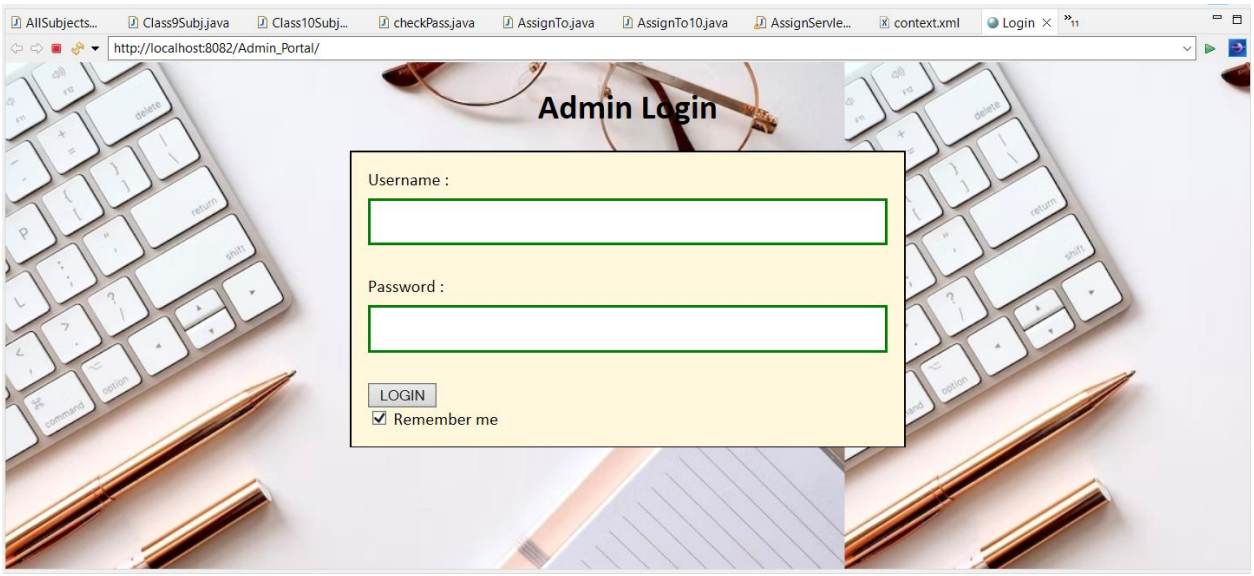
## **Step 1:** Writing a HTML Code for login front end

```
<!DOCTYPE html>
<html>
<head>

<title>Login</title>
<meta charset="ISO-8859-1">
<style>
p {
  background-image: url('css/11.jpg');
}
</style>
 <link type="text/css" rel="stylesheet" href="css/login.css">
</head>
<body style="background-image: url('css/11.jpg');">

<center> <h1> Admin Login </h1> </center>
  <form action="checkPass">

  <div class="container">
             <input type="hidden" name="command" value="LOGIN" />
            <label>Username : </label>
            <br/>
            <input type="text" name="uname"><br>
            <br/>
            <label>Password : </label>
            <br/>
             <input type="password" name="upass"><br>
            <br/>
            <input type="submit" value="LOGIN">
            <br/>
            <input type="checkbox" checked="checked"> Remember me

        </div>
    </form>


</body>
</html>
```

**OUTPUT:**

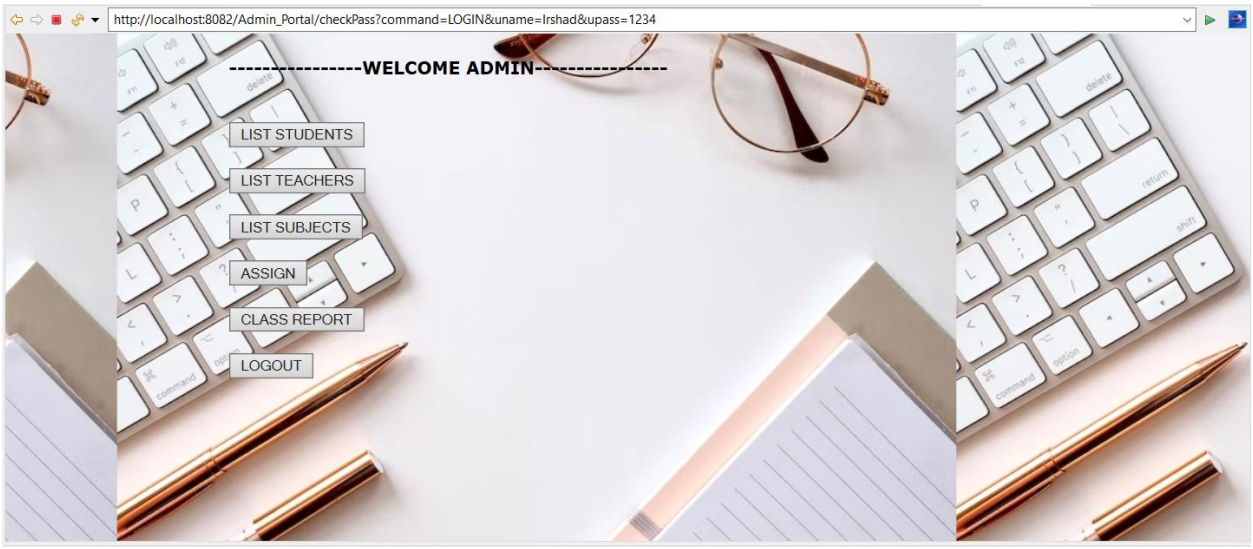



## **Step 2:** Writing a HTML Code for Admin Main screen:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link type="text/css" rel="stylesheet" href="css/style.css">
</head>
<body style="background-image: url('css/11.jpg');">
<h4>----------------WELCOME ADMIN----------------</h4>
<form action="StudentsServlet">

<br><input type="submit" value="LIST STUDENTS"><br><br>

</form>

<form action="TeachersServlet">

<input type="submit" value="LIST TEACHERS"><br><br>

</form>

<form action="AllSubjects">

<input type="submit" value="LIST SUBJECTS"><br><br>

</form>

<form action="Assign.html">

<input type="submit" value="ASSIGN"><br><br>

</form>
```

```
<form action="ClassAssigned.jsp">

<input type="submit" value="CLASS REPORT"><br><br>

</form>

<form action="AdminPage.html">

<input type="submit" value="LOGOUT"><br><br>

</form>


</body>
</html>
```

**OUTPUT:**

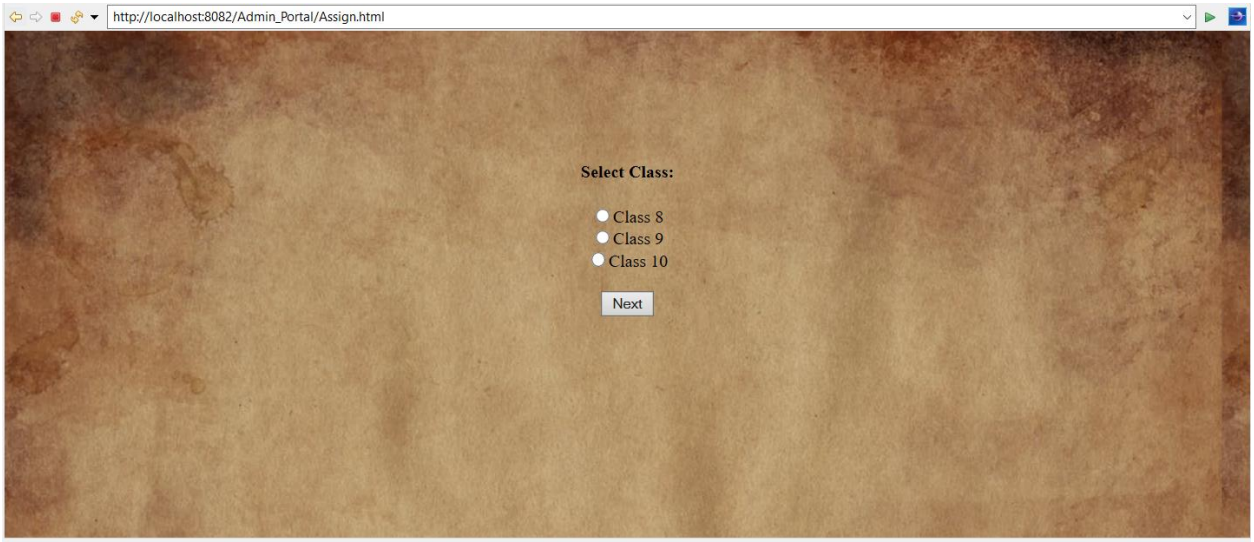



## **Step 3:** Writing a HTML code Assign Function for a Radio buttons:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body style="background-image: url('css/back.jpg');">

<form action="AssignServlet">
<br>
<br>
<br>
<br>
```

```
<br>

<h4><center>Select Class:</h4>
<center><input type="radio" name="r1" value="8">Class 8<br>
<center><input type="radio" name="r1" value="9">Class 9<br>
<center><input type="radio" name="r1" value="10">Class 10<br><br>

<input type="submit" value="Next">


</form>

</body>
</html>
```

**OUTPUT:**



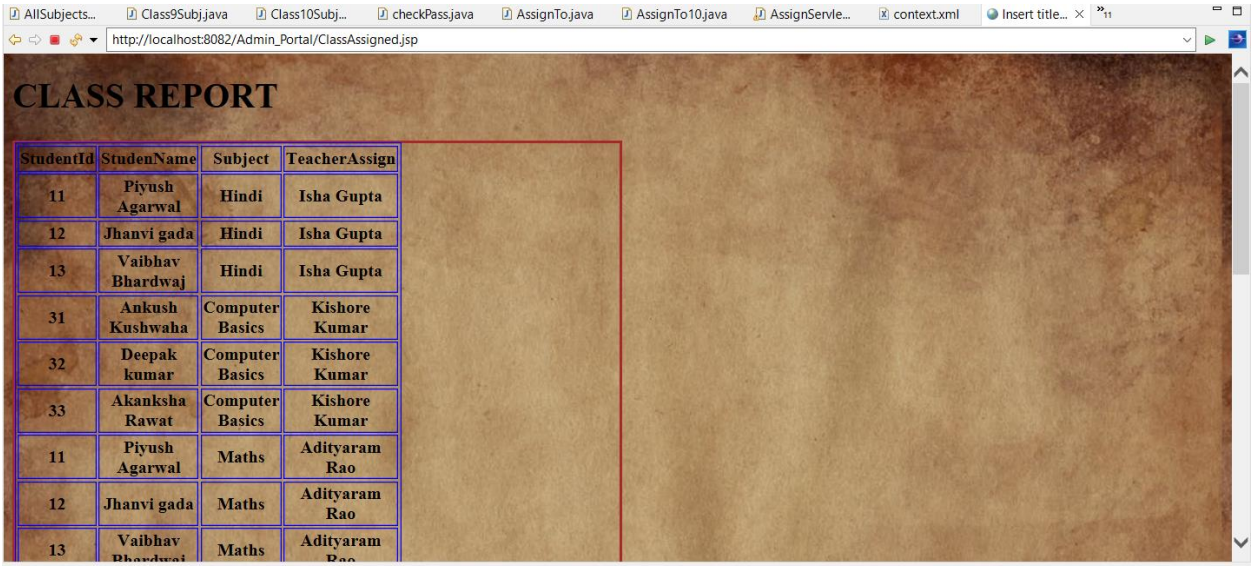

## **Step 4:** Writing a JSP code to retrieve data from database to display:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@page import="java.sql.*" %>
     <%@page import="java.sql.DriverManager" %>
     <%@page import="java.sql.PreparedStatement" %>
      <%@page import="java.sql.SQLException" %>

<%
Connection con;
PreparedStatement pstm;
ResultSet rsuser;
int StudentId;
String StudenName,Subject,TeacherAssign;



%>
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body style="background-image: url('css/back.jpg');">

<H1>CLASS REPORT</H1>
<form action= "ClassAssigned.jsp" method="post">

<div style="width: 50%; height:1000px;border-style:solid;border-width:2px;border-
color:brown">

<table style="width: 10%; height:100px;border-style:solid;border-width:1px;border-
color:blue">
<thead>

<th style="width: 10%; height:20px;border-style:solid;border-width:1px;border-
color:blue">StudentId</th>
<th style="width: 20%; height:20px;border-style:solid;border-width:1px;border-
color:blue">StudenName</th>
<th style="width: 20%; height:20px;border-style:solid;border-width:1px;border-
color:blue">Subject</th>
<th style="width: 40%; height:20px;border-style:solid;border-width:1px;border-
color:blue">TeacherAssign</th>


</thead>
<tbody>
<%
try{
	Class.forName("com.mysql.jdbc.Driver");
	con=DriverManager.getConnection("jdbc:mysql://localhost:3306/scl", "root",
"root");
	pstm = con.prepareStatement("select * from classreport");
	rsuser= pstm.executeQuery();
	while(rsuser.next())
	{
		StudentId=rsuser.getInt(1);
		StudenName=rsuser.getString(2);
		Subject=rsuser.getString(3);
		TeacherAssign=rsuser.getString(5);
		%>
		<tr>
		<th style="width: 10%; height:20px;border-style:solid;border-
width:1px;border-color:blue"><%=StudentId%></th>
		<th style="width: 20%; height:20px;border-style:solid;border-
width:1px;border-color:blue"><%=StudenName%></th>
		<th style="width: 20%; height:20px;border-style:solid;border-
width:1px;border-color:blue"><%=Subject%></th>
		<th style="width: 40%; height:20px;border-style:solid;border-
width:1px;border-color:blue"><%=TeacherAssign%></th>

	</tr>
	<%}
}
catch(Exception  ex){
```

```
        %>
        <script>
        alert("Problem in Retriving data:-"+<% ex.toString(); %>);
        </script>


        <%
}


%>
</tbody>

</table>

</center>
</table>

</div>
</body>
</html>
```

**OUTPUT:**

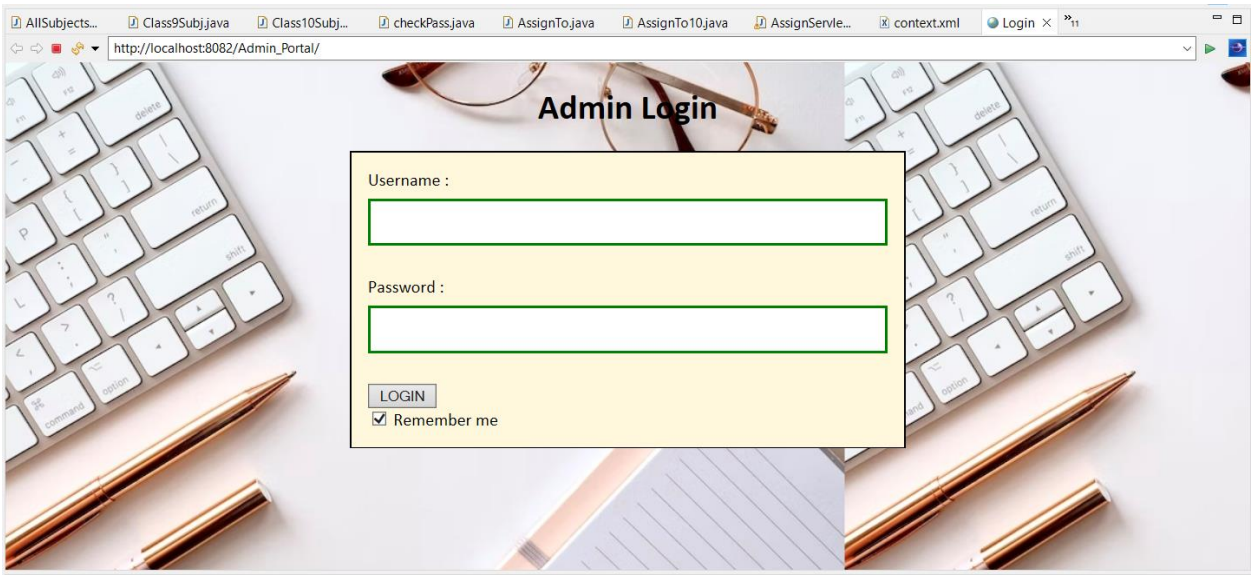



## **Step 5:** Writing a CSS code for login screen:

```
Body {
  font-family: Calibri, Helvetica, sans-serif;
  background-color: pink;

}
button {
         justify-content: center;
        background-color: #4CAF50;
        width: 100%;
         color: white;
         padding: 15px;
         margin: 10px 0px;
```

```
        border: none;
        cursor: pointer;
         }

form {
        border: 1.4px solid black;
             width: 45%;
             margin: 0 auto;
   }
input[type=text], input[type=password] {
      justify-content: center;
        width: 100%;
        margin: 8px 0;
        padding: 12px 20px;
        display: inline-block;
        border: 2px solid green;
        box-sizing: border-box;
   }
button:hover {
        opacity: 0.7;
   }


.container {

 justify-content: center;
        padding: 15px;
        background-color: #FFF8DC;
   }
```

**OUTPUT:**




***Under CSS file you can insert all the backgroup image files to easily retrieve it inside eclip***

## **Step 6:** Writing a XML code to Direct pages:

```
<?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">
  <display-name>Administrative</display-name><display-name>Admin_Portal</display-
name>

  <welcome-file-list>
   <welcome-file>AdminPage.html</welcome-file>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.jsp</welcome-file>
    <welcome-file>default.htm</welcome-file>
  </welcome-file-list>
  <servlet>
    <description></description>
    <display-name>TeachersServlet</display-name>
    <servlet-name>TeachersServlet</servlet-name>
    <servlet-class>com.TeachersServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>TeachersServlet</servlet-name>
    <url-pattern>/TeachersServlet</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>StudentsServlet</display-name>
    <servlet-name>StudentsServlet</servlet-name>
    <servlet-class>com.StudentsServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>StudentsServlet</servlet-name>
    <url-pattern>/StudentsServlet</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>AllSubjects</display-name>
    <servlet-name>AllSubjects</servlet-name>
    <servlet-class>com.AllSubjects</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>AllSubjects</servlet-name>
    <url-pattern>/AllSubjects</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>Class8Subj</display-name>
    <servlet-name>Class8Subj</servlet-name>
    <servlet-class>com.Class8Subj</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Class8Subj</servlet-name>
    <url-pattern>/Class8Subj</url-pattern>
  </servlet-mapping>
```

```
<servlet>
  <description></description>
  <display-name>Class9Subj</display-name>
  <servlet-name>Class9Subj</servlet-name>
  <servlet-class>com.Class9Subj</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>Class9Subj</servlet-name>
  <url-pattern>/Class9Subj</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>Class10Subj</display-name>
  <servlet-name>Class10Subj</servlet-name>
  <servlet-class>com.Class10Subj</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>Class10Subj</servlet-name>
  <url-pattern>/Class10Subj</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>AssignServlet</display-name>
  <servlet-name>AssignServlet</servlet-name>
  <servlet-class>com.AssignServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>AssignServlet</servlet-name>
  <url-pattern>/AssignServlet</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>AssignTo</display-name>
  <servlet-name>AssignTo</servlet-name>
  <servlet-class>com.AssignTo</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>AssignTo</servlet-name>
  <url-pattern>/AssignTo</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>AssignTo10</display-name>
  <servlet-name>AssignTo10</servlet-name>
  <servlet-class>com.AssignTo10</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>AssignTo10</servlet-name>
  <url-pattern>/AssignTo10</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>checkPass</display-name>
  <servlet-name>checkPass</servlet-name>
  <servlet-class>com.checkPass</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>checkPass</servlet-name>
  <url-pattern>/checkPass</url-pattern>
```

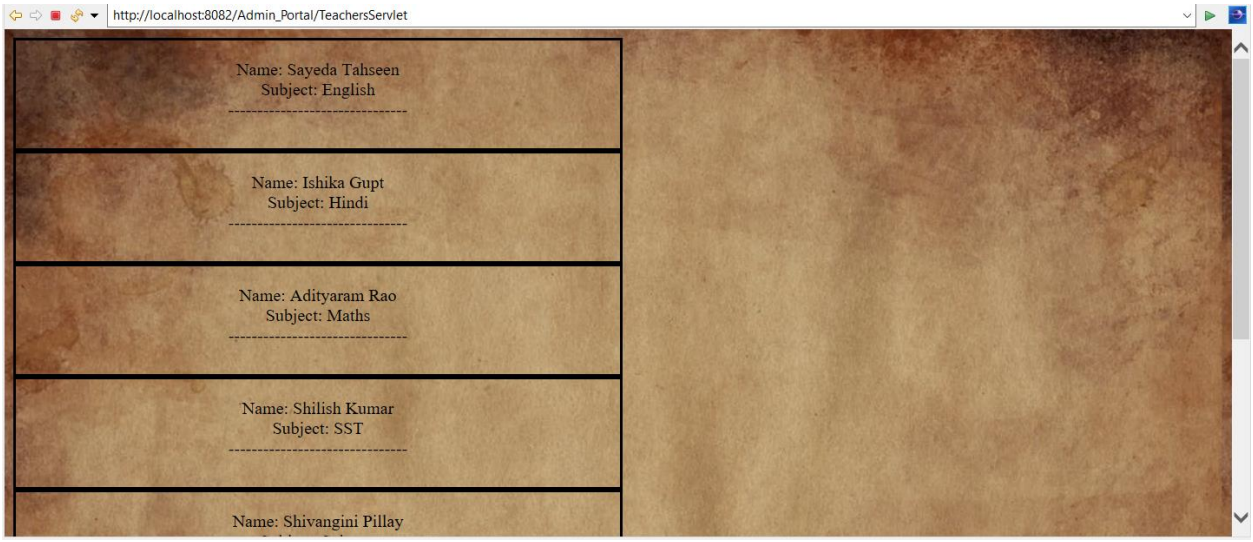
```
  </servlet-mapping>
</web-app>
```

## **Step 7:** Writing a program to display Teacher details from database:

```
package com;

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;

/**
 * Servlet implementation class TeachersServlet
 */
public class TeachersServlet extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public TeachersServlet() {
        super();
        // TODO Auto-generated constructor stub
    }


	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

		PrintWriter out = response.getWriter();

		try {

			Class.forName("com.mysql.jdbc.Driver");
			Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
```

```
                        Statement stmt = connect.createStatement();
                        ResultSet rs = stmt.executeQuery("select * from listteachers");
                        out.println("<body style=\"background-image: url('css/back.jpg');\">");
                        while(rs.next()) {
                                out.println("<div style=\"width: 50%; height:100px;border-
style:solid;border-width:2px;border-color:blue>");
                                out.println("<table style=\"width: 50%; height:100px;border-
style:solid;border-width:2px;border-color:blue>");
                                out.println("<br><center>"+"Name:
"+rs.getString("name")+"<br><center>"+"Subject: "+rs.getString("subject")+"<br>");
                                out.println("<center>"+"------------------------------");
                                out.println("</table>");
                                out.println("</div>");
                        }
                        out.println("<div style=\"width: 50%; height:100px;border-
style:solid;border-width:2px;border-color:blue><table style=\\\"width: 50%;
height:100px;border-style:solid;border-width:2px;border-color:blue><br><center>"+"<a
href='Admin.html'>Back to Dashboard</a></table></div>");

                        out.println("</body>");


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


        protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
                // TODO Auto-generated method stub
                doGet(request, response);
        }
}
```

**OUTPUT:**



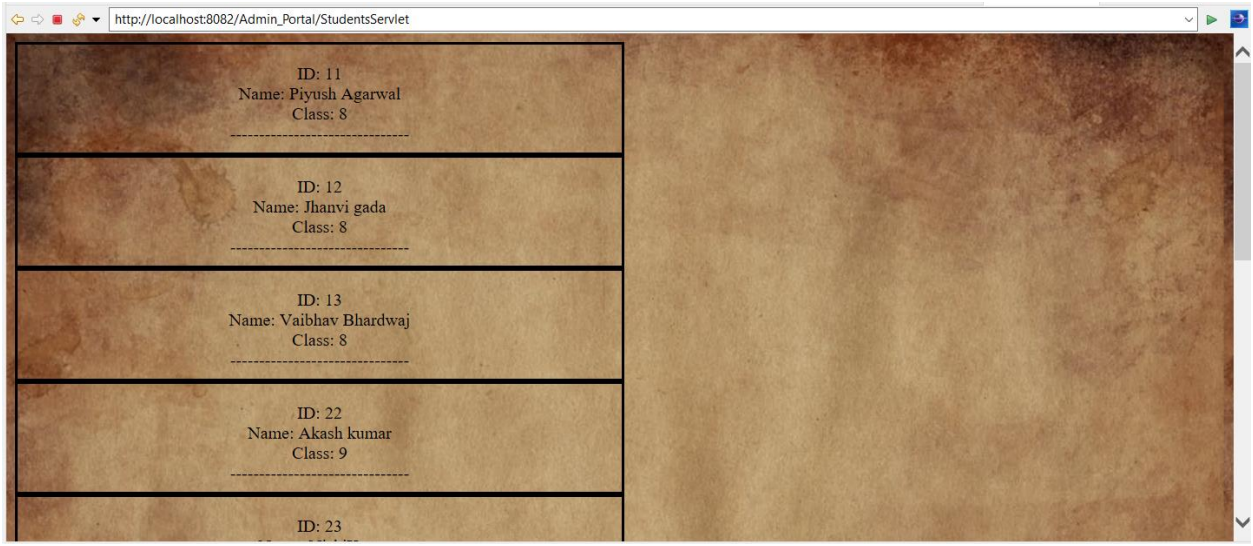

## **Step 8:** Writing a program to display Student details from database:

```
package com;

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;

/**
 * Servlet implementation class StudentsServlet
 */
public class StudentsServlet extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public StudentsServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

	/**
```

```
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		PrintWriter out = response.getWriter();

		try {

			Class.forName("com.mysql.jdbc.Driver");
			Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
			Statement stmt = connect.createStatement();
			ResultSet rs = stmt.executeQuery("select * from ListStudents");
			out.println("<body style=\"background-image: url('css/back.jpg');\">");
			while(rs.next()) {


				out.println("<div style=\"width: 50%; height:100px;border-
style:solid;border-width:2px;border-color:blue><center>");
				out.println("<table style=\"width: 50%; height:100px;border-
style:solid;border-width:2px;border-color:blue><center>");
				out.println("<br><center>"+"ID:
"+rs.getInt("Id")+"<br><center>"+"Name: "+rs.getString("name")+"<br><center>"+"Class:
"+rs.getString("class")+"<br>");
				out.println("<center>"+"-------------------------------");
				out.println("</table>");
				out.println("</div>");

			}
			out.println("<div style=\"width: 50%; height:100px;border-
style:solid;border-width:2px;border-color:blue><table style=\\\"width: 50%;
height:100px;border-style:solid;border-width:2px;border-color:blue><br><center>"+"<a
href='Admin.html'>Back to Dashboard</a></table></div>");

			out.println("</body>");


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


	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		doGet(request, response);
```

```
        }

}
```

**OUTPUT:**

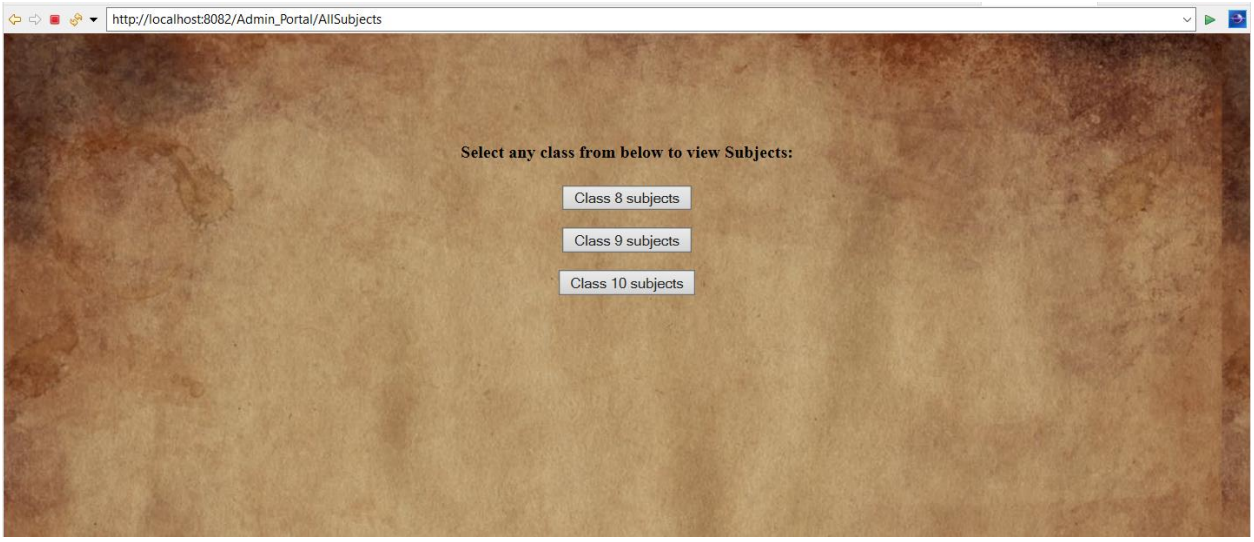



## **Step 9:** Writing a program to display ALL the subjects from database:

```
package com;

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

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

/**
 * Servlet implementation class AllSubjects
 */
public class AllSubjects extends HttpServlet {
        private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AllSubjects() {
        super();
        // TODO Auto-generated constructor stub
    }
```

```
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

		PrintWriter out = response.getWriter();

		out.println("<body style=\"background-image:
url('css/back.jpg');\"><center><h4><br><br><br><br><br>Select any class from below to
view Subjects: </h4><form action='Class8Subj'> <input type='submit' value='Class 8
subjects'></form>"+  "+"<form action='Class9Subj'> <input type='submit' value='Class 9
subjects'></form>"+"<form action='Class10Subj'> <input type='submit' value='Class 10
subjects'></form>");

		out.println("</body>");
	}


	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		doGet(request, response);
	}

}
```

**OUTPUT:**

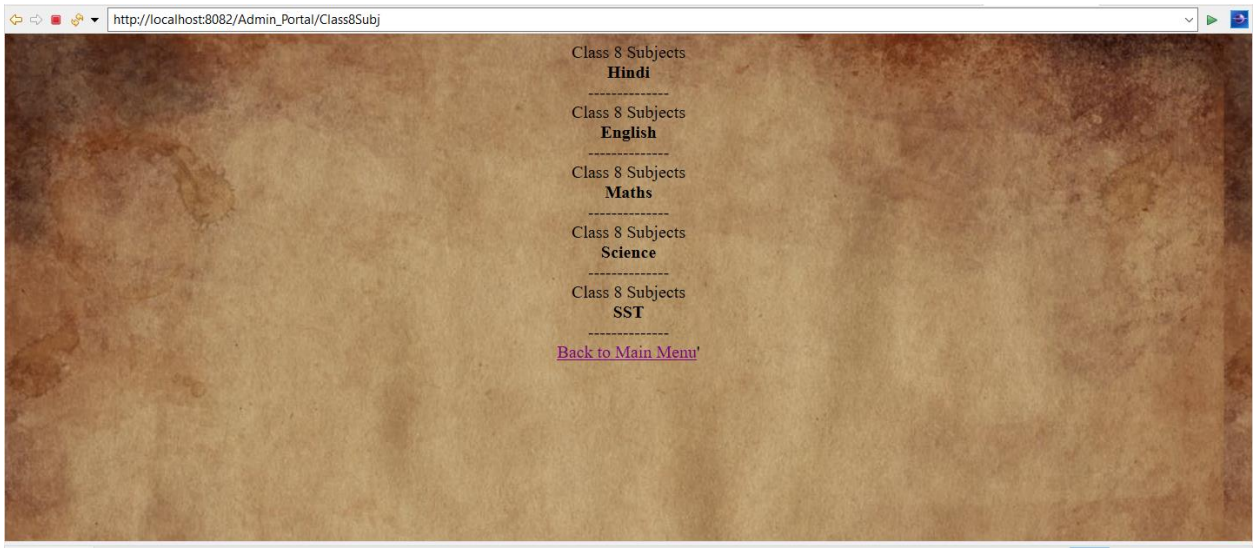


## **Step 10:** Writing a program to Retrieve Class 8 subjects:

```
package com;

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;

/**
 * Servlet implementation class Class8Subj
 */
public class Class8Subj extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public Class8Subj() {
        super();
        // TODO Auto-generated constructor stub
    }

	/**
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

		PrintWriter out = response.getWriter();
		try {

			Class.forName("com.mysql.jdbc.Driver");
			Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
			Statement stmt = connect.createStatement();
			ResultSet rs = stmt.executeQuery("select subjects from allsubjects
where type='regular'");
			out.println("<body style=\"background-image: url('css/back.jpg');\">");
```

```
                        while(rs.next()) {
                                out.println("<center>"+"Class 8 Subjects");

        out.println("<br>"+"<strong>"+rs.getString("subjects")+"</strong>"+"<br>");
                                out.println("--------------");
                        }

                        out.println("<br>"+"<a href='Admin.html'>Back to Main Menu</a>'");
                        out.println("</body>");

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

        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
         */
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
                // TODO Auto-generated method stub
                doGet(request, response);
        }

}
```

**OUTPUT:**

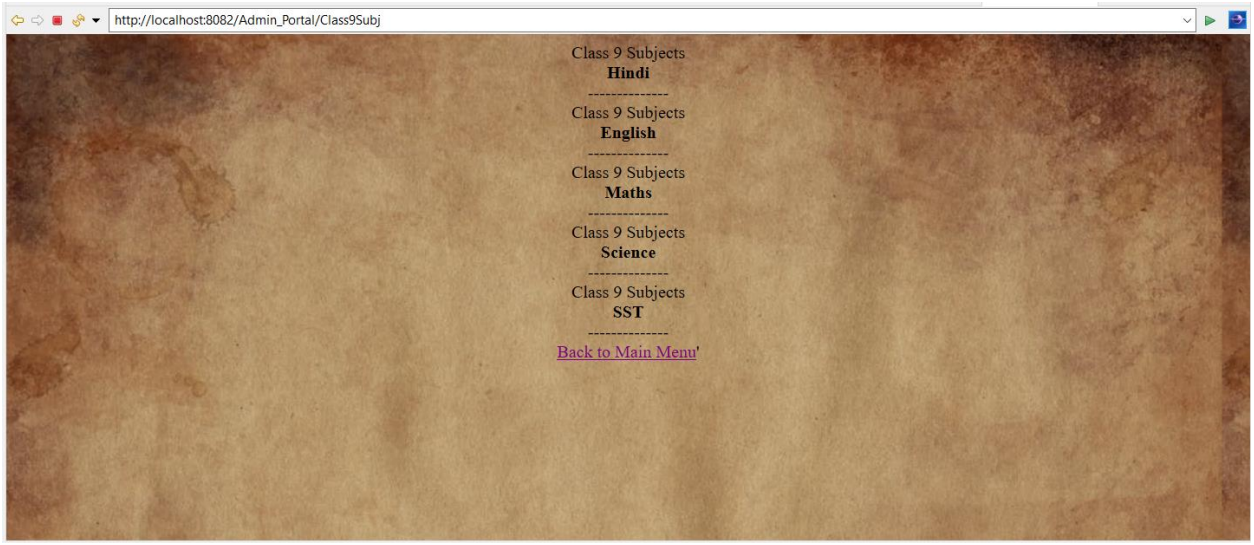



## **Step 11:** Writing a program to Retrieve Class 9 subjects:

```
package com;

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;

/**
 * Servlet implementation class Class9Subj
 */
public class Class9Subj extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public Class9Subj() {
        super();
        // TODO Auto-generated constructor stub
    }

	/**
```

```
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

		PrintWriter out = response.getWriter();
		try {

			Class.forName("com.mysql.jdbc.Driver");
			Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
			Statement stmt = connect.createStatement();
			ResultSet rs = stmt.executeQuery("select subjects from allsubjects
where type='regular'");
			out.println("<body style=\"background-image: url('css/back.jpg');\">");

			while(rs.next()) {
				out.println("<center>"+"Class 9 Subjects");

	out.println("<br><center>"+"<strong>"+rs.getString("subjects")+"</strong>"+"<br>");
				out.println("--------------");
			}

			out.println("<br>"+"<a href='Admin.html'>Back to Main Menu</a>'");
			out.println("</body>");

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

	}

	/**
	 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		doGet(request, response);
	}

}
```

**OUTPUT:**



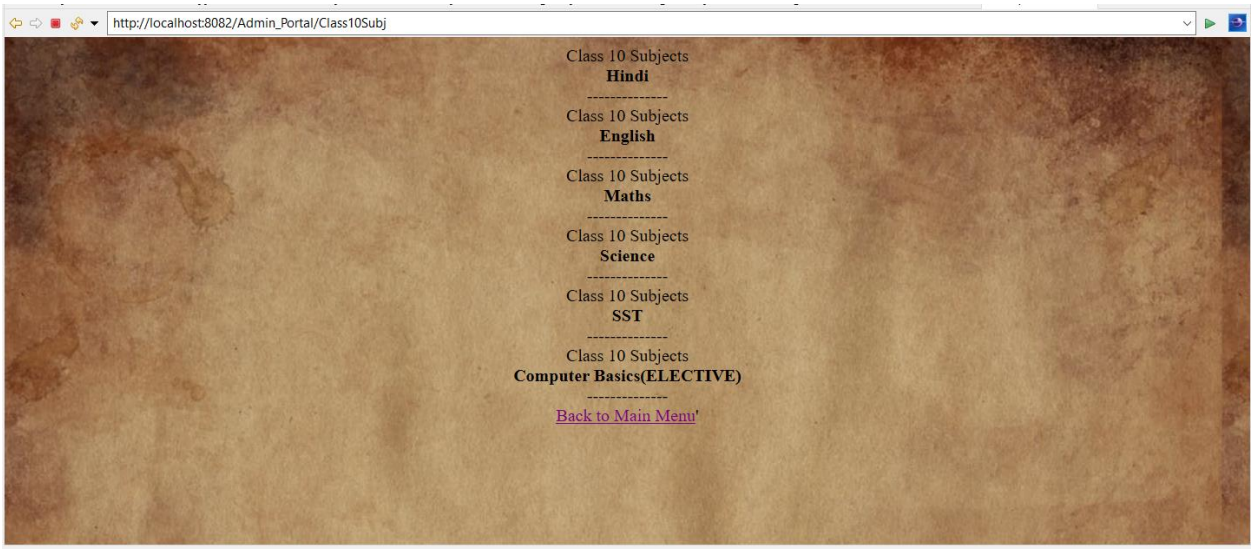

## **Step 12:** Writing a program to Retrieve Class 10 subjects:

```
package com;

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;

/**
 * Servlet implementation class Class10Subj
 */
public class Class10Subj extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public Class10Subj() {
```

```
        super();
        // TODO Auto-generated constructor stub
    }

        /**
         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
         */
        protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

                PrintWriter out = response.getWriter();
                try {

                        Class.forName("com.mysql.jdbc.Driver");
                        Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
                        Statement stmt = connect.createStatement();
                        ResultSet rs = stmt.executeQuery("select subjects from allsubjects");
                        out.println("<body style=\"background-image: url('css/back.jpg');\">");

                        while(rs.next()) {

                                if(rs.getString("subjects").equals("Computer Basics")) {
                                        out.println("<center>"+"Class 10 Subjects");

        out.println("<br>"+"<strong>"+rs.getString("subjects")+"(ELECTIVE)"+"</strong>"+"<
br>");
                                }
                                else {
                                        out.println("<center>"+"Class 10 Subjects");

        out.println("<br>"+"<strong>"+rs.getString("subjects")+"</strong>"+"<br>");
                                }
                                out.println("--------------");
                        }

                        out.println("<br>"+"<a href='Admin.html'>Back to Main Menu</a>'");
                        out.println("</body>");

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

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
```

```
	 */
	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		doGet(request, response);
	}

}
```

**OUTPUT:**

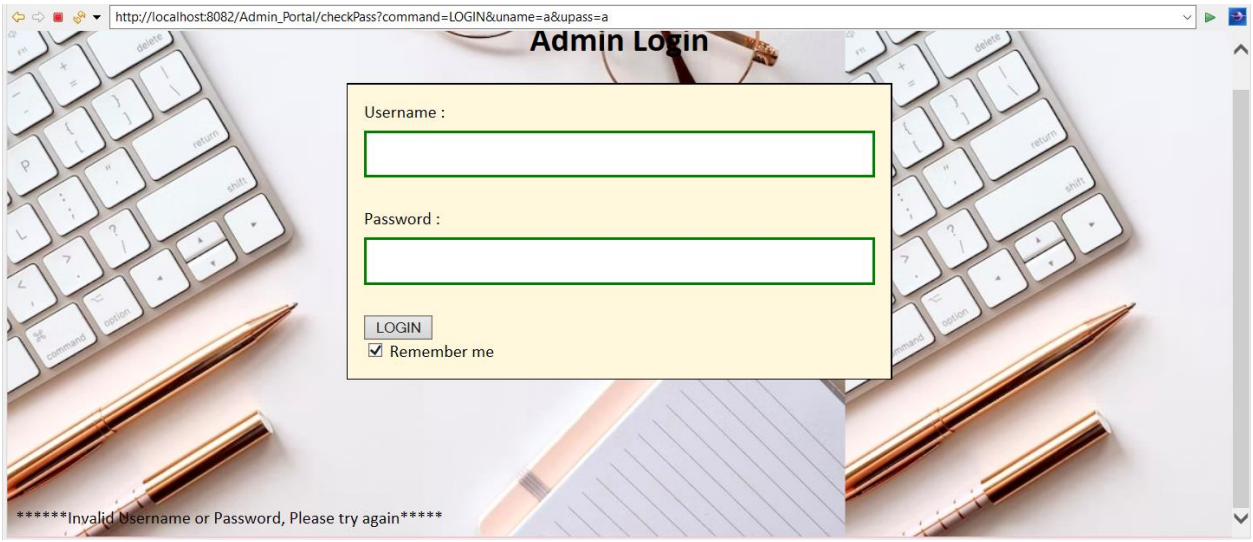



## **Step 13:** Writing a program to Check Login Credential:

```
package com;

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

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

/**
 * Servlet implementation class checkPass
 */
```

```
public class checkPass extends HttpServlet {
	private static final long serialVersionUID = 1L;

   /**
    * @see HttpServlet#HttpServlet()
    */
   public checkPass() {
      super();
      // TODO Auto-generated constructor stub
   }

	/**
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

		PrintWriter out = response.getWriter();
		String name = request.getParameter("uname");
		String pass = request.getParameter("upass");

		if(name.equals("Narendra") && pass.equals("1234")) {
			RequestDispatcher req =
request.getRequestDispatcher("Admin.html");
			req.forward(request, response);


		}else {
			RequestDispatcher req =
request.getRequestDispatcher("AdminPage.html");
			req.include(request, response);out.println("<br>");
			out.println("<br>");
			out.println("<br>");
			out.println("<br>");
			out.println("<br>");
			out.println("<br>"+"******Invalid Username or Password, Please try
again*****");


		}

	}

}
```

**OUTPUT:**



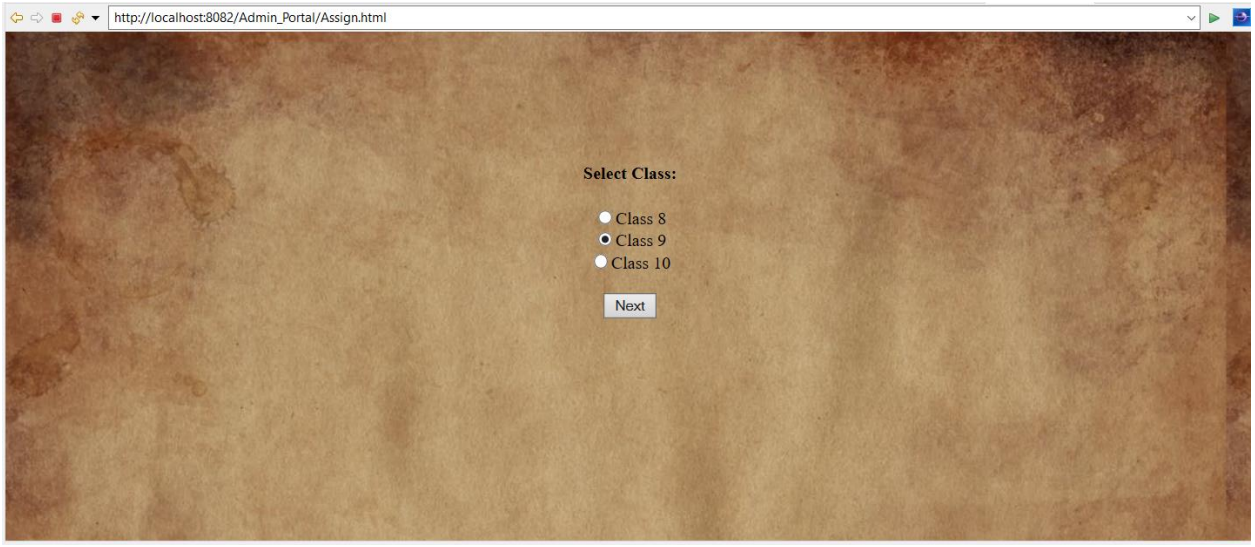

## **Step 14:** Writing a program to Assign Teacher to class 8 and 9;

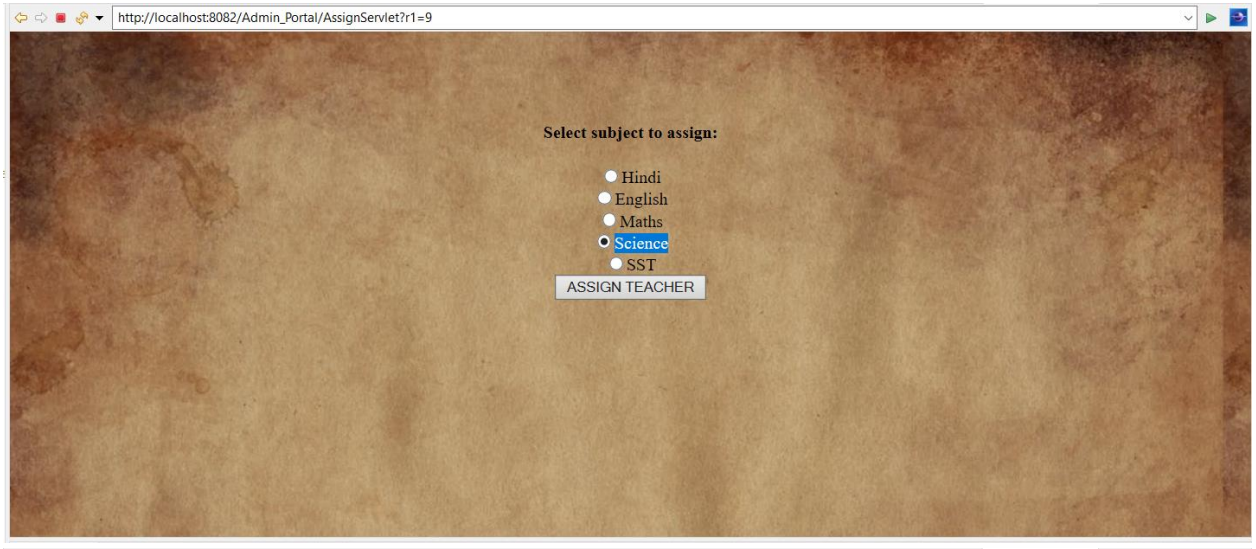
```
package com;

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 java.util.ArrayList;

import java.util.List;

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

import java.sql.PreparedStatement;

/**
 * Servlet implementation class AssignTo
 */
public class AssignTo extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AssignTo() {
        super();
```

```
        // TODO Auto-generated constructor stub
    }

        /**
         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
         */
        protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

                PrintWriter out = response.getWriter();

                Cookie[] name = request.getCookies();
                int ck = Integer.parseInt(name[0].getValue());
                 String teacher = null;

                String subj = request.getParameter("sub");

                try {

                        Class.forName("com.mysql.jdbc.Driver");
                        Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
                        Statement stmt = connect.createStatement();

                        ResultSet rs = stmt.executeQuery("select name from listteachers
where subject="+"'"+subj+"'");
                        while(rs.next()) {
                                teacher = rs.getString("name");
                        }
                        Statement stmt1 = connect.createStatement();
                        ResultSet rs1 = stmt1.executeQuery("select name,ID from liststudents
where class="+"'"+name[0].getValue()+"'");

                        List<String> stud = new ArrayList<String>();
                        List<Integer> studId = new ArrayList<Integer>();

                        while(rs1.next()) {
                                stud.add(rs1.getString("name"));
                                studId.add(rs1.getInt("Id"));
                        }
                        rs1.close();

                        for(int i = 0;i < 3;i++) {
                        PreparedStatement stmt2 = connect.prepareStatement("insert into
classreport values(?,?,?,?,?)");
```

```
                        stmt2.setInt(1, studId.get(i));
                        stmt2.setString(2, stud.get(i));
                        stmt2.setString(3,subj);
                        stmt2.setInt(4, ck);
                        stmt2.setString(5,teacher);

                        stmt2.execute();
                        stmt2.close();
                        }


                        out.println("<body bgcolor='brown'><h4>Teacher Assigned</h4><a
href='Admin.html'>Go Back to Main</body>");
                }

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

        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
         */
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
                // TODO Auto-generated method stub
                doGet(request, response);
        }

}
```

**OUTPUT:**





## **Step 15:** Writing a program to Assign Teacher to class 10;

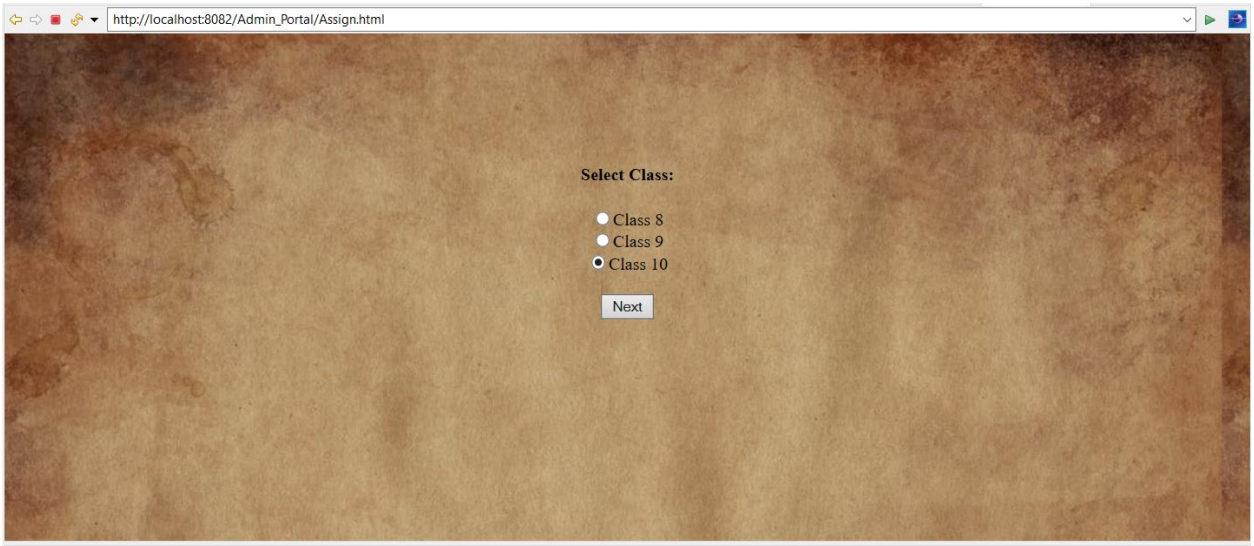
package com;

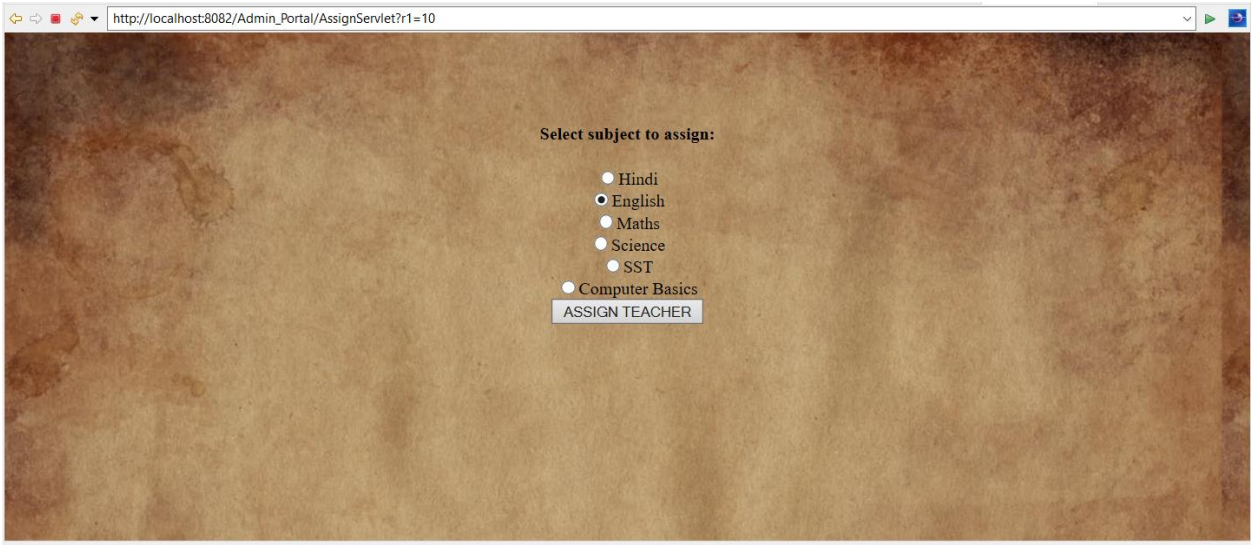
```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.List;

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

/**
 * Servlet implementation class AssignTo10
 */
public class AssignTo10 extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AssignTo10() {
        super();
        // TODO Auto-generated constructor stub
    }

	/**
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
PrintWriter out = response.getWriter();

		Cookie[] name = request.getCookies();
		int cook = Integer.parseInt(name[0].getValue());
		 String teacher = null;

		String subj = request.getParameter("sub");

		try {

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

```
                        Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/scl","root","root");
                        Statement stmt = connect.createStatement();

                        ResultSet rs = stmt.executeQuery("select name from listteachers
where subject="+"'"+subj+"'");
                        while(rs.next()) {
                                teacher = rs.getString("name");
                        }
                        Statement stmt1 = connect.createStatement();
                        ResultSet rs1 = stmt1.executeQuery("select name,ID from liststudents
where class="+"'"+name[0].getValue()+"'");

                        List<String> stud = new ArrayList<String>();
                        List<Integer> studId = new ArrayList<Integer>();

                        while(rs1.next()) {
                                stud.add(rs1.getString("name"));
                                studId.add(rs1.getInt("Id"));
                        }
                        rs1.close();

                        for(int i = 0;i < 3;i++) {
                        PreparedStatement stmt2 = connect.prepareStatement("insert into
classreport values(?,?,?,?,?)");


                        stmt2.setInt(1, studId.get(i));
                        stmt2.setString(2, stud.get(i));
                        stmt2.setString(3,subj);
                        stmt2.setInt(4, cook);
                        stmt2.setString(5,teacher);

                        stmt2.execute();
                        stmt2.close();
                        }
                        out.println("<body bgcolor='brown'><h4>Teacher Assigned</h4><a
href='Admin.html'>Go Back to Main</body>");

                } catch (Exception e) {
                        out.println("Teacher assigned , GOTO MAIN Menu and click on ClASS
REPORT to view the details");
        }
        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
```

```
	 */
	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		doGet(request, response);
	}

}
```

## OUTPUT:




## **Step 16:** Writing a program to Assign Subject to a class:

```
package com;

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

import com.mysql.jdbc.PreparedStatement;

/**
 * Servlet implementation class AssignServlet
 */
public class AssignServlet extends HttpServlet {
	private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AssignServlet() {
        super();
        // TODO Auto-generated constructor stub
    }
```

```
	/**
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		PrintWriter out = response.getWriter();

		String selectedClass = request.getParameter("r1");
		Cookie ck = new Cookie("Class",selectedClass);
		response.addCookie(ck);

		if(selectedClass.equals("8") || selectedClass.equals("9")) {
		out.println("<body style=\"background-image:
url('css/back.jpg');\"><br><br><br><center><h4>Select subject to assign:</h4><form
action='AssignTo'>");
		out.println("<input type='radio' name='sub' value='Hindi'>Hindi<br>");
		out.println("<input type='radio' name='sub' value='English'>English<br>");
		out.println("<input type='radio' name='sub' value='Maths'>Maths<br>");
		out.println("<input type='radio' name='sub' value='Science'>Science<br>");
		out.println("<input type='radio' name='sub' value='SST'>SST<br>");
		out.println("<input type='submit' value='ASSIGN TEACHER'>");
		out.println("</form></body>");

		}
		if(selectedClass.equals("10")) {
			out.println("<body style=\"background-image:
url('css/back.jpg');\"><br><br><br><center><h4>Select subject to assign:</h4><form
action='AssignTo10'>");
			out.println("<input type='radio' name='sub' value='Hindi'>Hindi<br>");
			out.println("<input type='radio' name='sub'
value='English'>English<br>");
			out.println("<input type='radio' name='sub'
value='Maths'>Maths<br>");
			out.println("<input type='radio' name='sub'
value='Science'>Science<br>");
			out.println("<input type='radio' name='sub' value='SST'>SST<br>");
			out.println("<input type='radio' name='sub' value='Computer
Basics'>Computer Basics<br>");
			out.println("<input type='submit' value='ASSIGN TEACHER'>");
			out.println("</form></body>");
		}

			}
/**
	 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
```

```
	*/
	protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
		// TODO Auto-generated method stub
		doGet(request, response);
	}

}
```

## **Step 17:** Writing a program Establish connection to database via XML file:

```
<Context>

  <Resource name="jdbc_database"
                  auth="Container" type="javax.sql.DataSource"
               maxActive="20" maxIdle="5" maxWait="10000"
               username="root" password="root"
               driverClassName="com.mysql.cj.jdbc.Driver"
               url="jdbc:mysql://localhost:3306/scl"/>

</Context>
```

## Creating Database and tables:

```
CREAT Database scl;


-- Table structure for table `allsubjects`
--

DROP TABLE IF EXISTS `allsubjects`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `allsubjects` (
  `Subjects` varchar(20) DEFAULT NULL,
  `type` varchar(10) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `allsubjects`
--

LOCK TABLES `allsubjects` WRITE;
/*!40000 ALTER TABLE `allsubjects` DISABLE KEYS */;
```

```
INSERT INTO `allsubjects` VALUES
('Hindi','Regular'),('English','Regular'),('Maths','Regular'),('Science','Regular'),('SST','
Regular'),('Computer Basics','Elective');
/*!40000 ALTER TABLE `allsubjects` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `classreport`
--

DROP TABLE IF EXISTS `classreport`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `classreport` (
  `StudentId` int DEFAULT NULL,
  `StudentName` varchar(20) DEFAULT NULL,
  `Subject` varchar(20) DEFAULT NULL,
  `Class` int DEFAULT NULL,
  `TeacherAssign` varchar(20) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `classreport`
--

LOCK TABLES `classreport` WRITE;
/*!40000 ALTER TABLE `classreport` DISABLE KEYS */;
INSERT INTO `classreport` VALUES (11,'Piyush Agarwal','Hindi',8,'Isha
Gupta'),(12,'Jhanvi gada','Hindi',8,'Isha Gupta'),(13,'Vaibhav Bhardwaj','Hindi',8,'Isha
Gupta'),(31,'Ankush Kushwaha','Computer Basics',10,'Kishore Kumar'),(32,'Deepak
kumar','Computer Basics',10,'Kishore Kumar'),(33,'Akanksha Rawat','Computer
Basics',10,'Kishore Kumar'),(11,'Piyush Agarwal','Maths',8,'Adityaram
Rao'),(12,'Jhanvi gada','Maths',8,'Adityaram Rao'),(13,'Vaibhav
Bhardwaj','Maths',8,'Adityaram Rao'),(11,'Piyush Agarwal','Hindi',8,'Ishika
Gupt'),(12,'Jhanvi gada','Hindi',8,'Ishika Gupt'),(13,'Vaibhav
Bhardwaj','Hindi',8,'Ishika Gupt'),(31,'Ankush Kushwaha','Hindi',10,'Ishika
Gupt'),(32,'Deepak kumar','Hindi',10,'Ishika Gupt'),(33,'Akanksha
Rawat','Hindi',10,'Ishika Gupt'),(11,'Piyush Agarwal','SST',8,'Shilish
Kumar'),(12,'Jhanvi gada','SST',8,'Shilish Kumar'),(13,'Vaibhav
Bhardwaj','SST',8,'Shilish Kumar'),(22,'Akash kumar','Science',9,'Shivangini
Pillay'),(23,'NishiKant','Science',9,'Shivangini Pillay'),(24,'Pooja
Bhatt','Science',9,'Shivangini Pillay');
/*!40000 ALTER TABLE `classreport` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `liststudents`
--

DROP TABLE IF EXISTS `liststudents`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
```

```
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `liststudents` (
  `ID` int DEFAULT NULL,
  `Name` varchar(20) DEFAULT NULL,
  `Class` int DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `liststudents`
--

LOCK TABLES `liststudents` WRITE;
/*!40000 ALTER TABLE `liststudents` DISABLE KEYS */;
INSERT INTO `liststudents` VALUES (11,'Piyush Agarwal',8),(12,'Jhanvi
gada',8),(13,'Vaibhav Bhardwaj',8),(22,'Akash kumar',9),(23,'NishiKant',9),(24,'Pooja
Bhatt',9),(31,'Ankush Kushwaha',10),(32,'Deepak kumar',10),(33,'Akanksha
Rawat',10);
/*!40000 ALTER TABLE `liststudents` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `listteachers`
--

DROP TABLE IF EXISTS `listteachers`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `listteachers` (
  `Name` varchar(20) DEFAULT NULL,
  `Subject` varchar(20) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `listteachers`
--

LOCK TABLES `listteachers` WRITE;
/*!40000 ALTER TABLE `listteachers` DISABLE KEYS */;
INSERT INTO `listteachers` VALUES ('Sayeda Tahseen','English'),('Ishika
Gupt','Hindi'),('Adityaram Rao','Maths'),('Shilish Kumar','SST'),('Shivangini
Pillay','Science'),('Kaif Kaur','Computer Basics');
/*!40000 ALTER TABLE `listteachers` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `login`
-- DROP TABLE IF EXISTS `mystudent`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `mystudent` (
```

```
  `id` int NOT NULL,
  `Place` varchar(255) DEFAULT NULL,
  `StName` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `mystudent`
--

LOCK TABLES `mystudent` WRITE;
/*!40000 ALTER TABLE `mystudent` DISABLE KEYS */;
INSERT INTO `mystudent` VALUES (21,'Delhi','Ashuma'),(22,'Mumbai','Mercy
da'),(24,'Bangalore','Payal'),(100,'Goa','Mortal');
/*!40000 ALTER TABLE `mystudent` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET
CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION
*/;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2022-09-28 17:59:18
```

Output: