

Assignment : 02

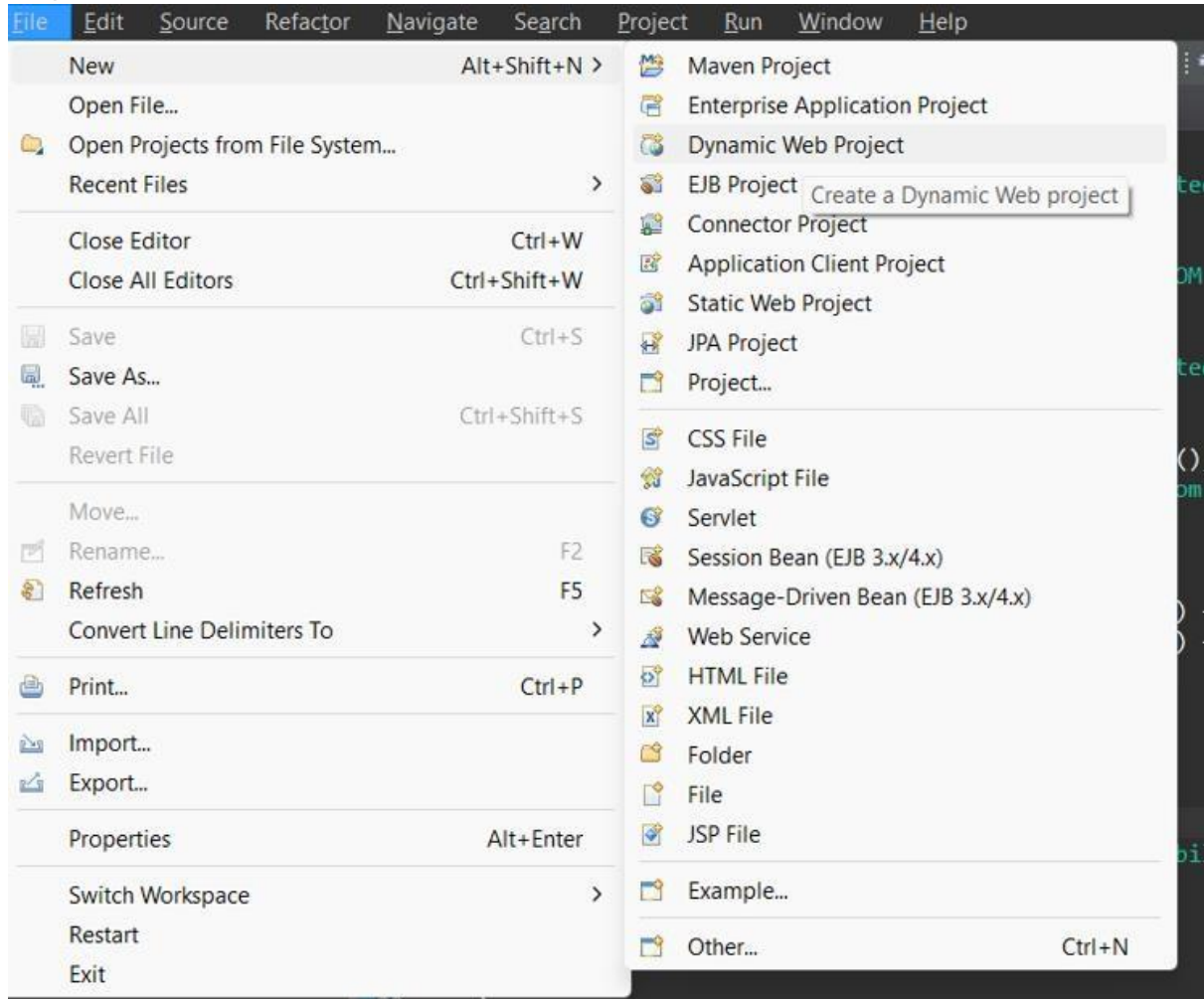
Name : Pawar Rohit Sunil

Roll No : 115 Div : B

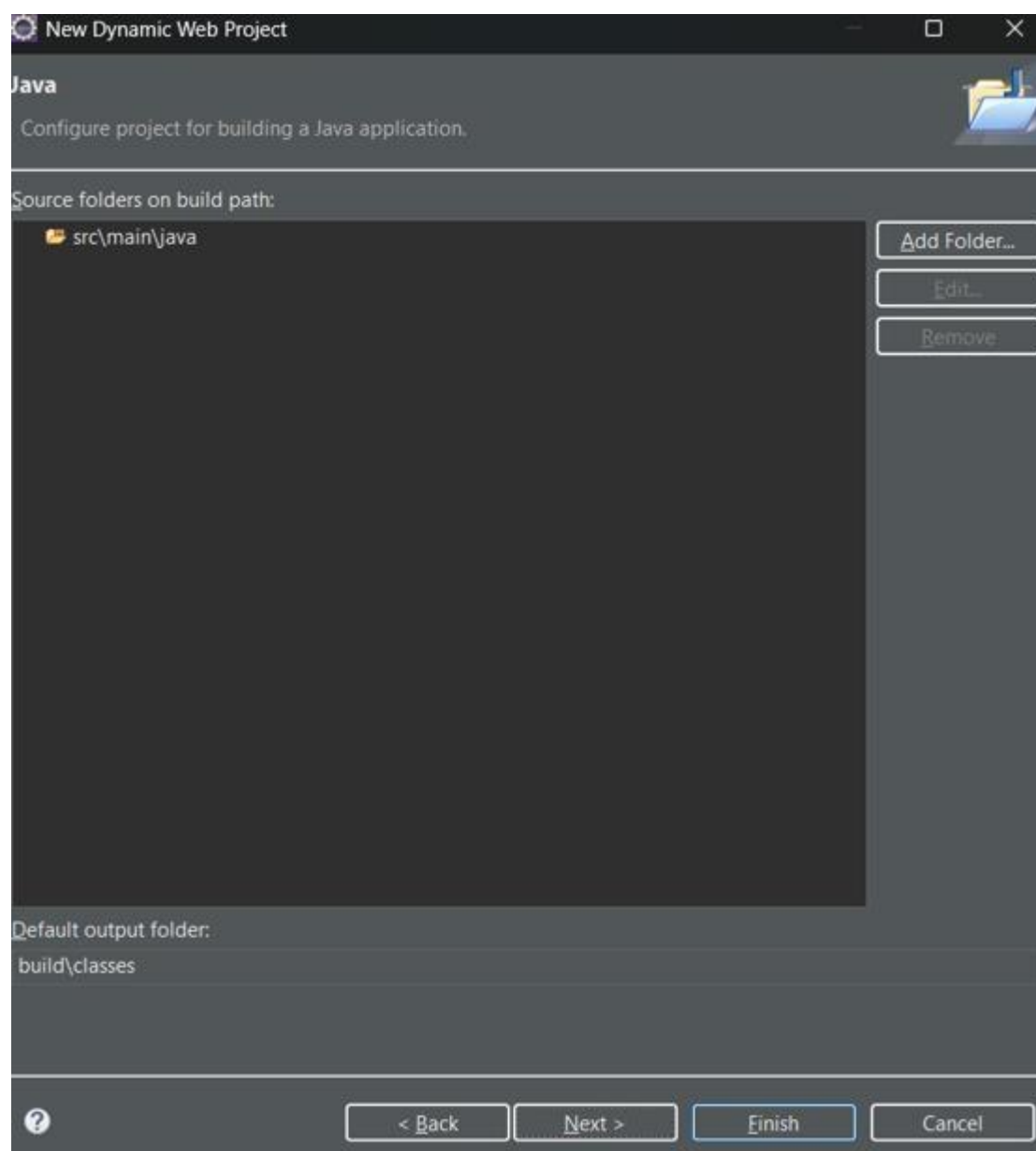
PRN No. : UCS22M1104

Problem : Implement MVC based web application using Servlet

Step 1 :



New Dynamic Web Project



New Dynamic Web Project

Web Module

Configure web module settings.



Context root: ServletProject1

Content directory: src/main/webapp

☒ Generate web.xml deployment descriptor

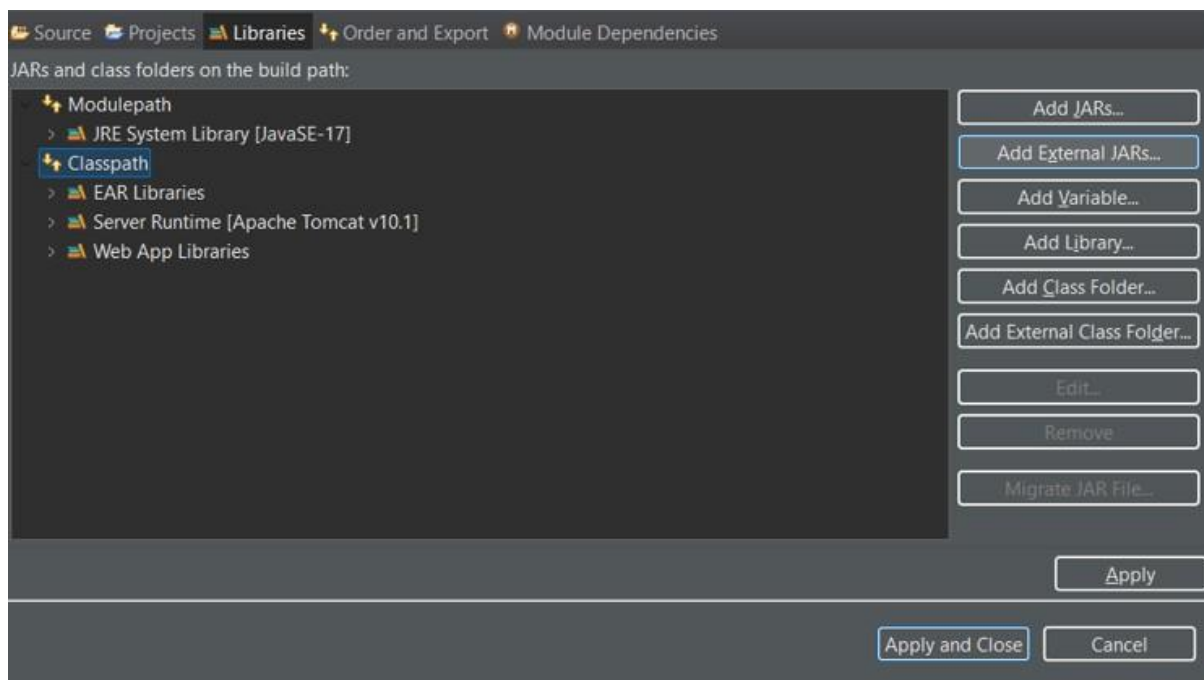
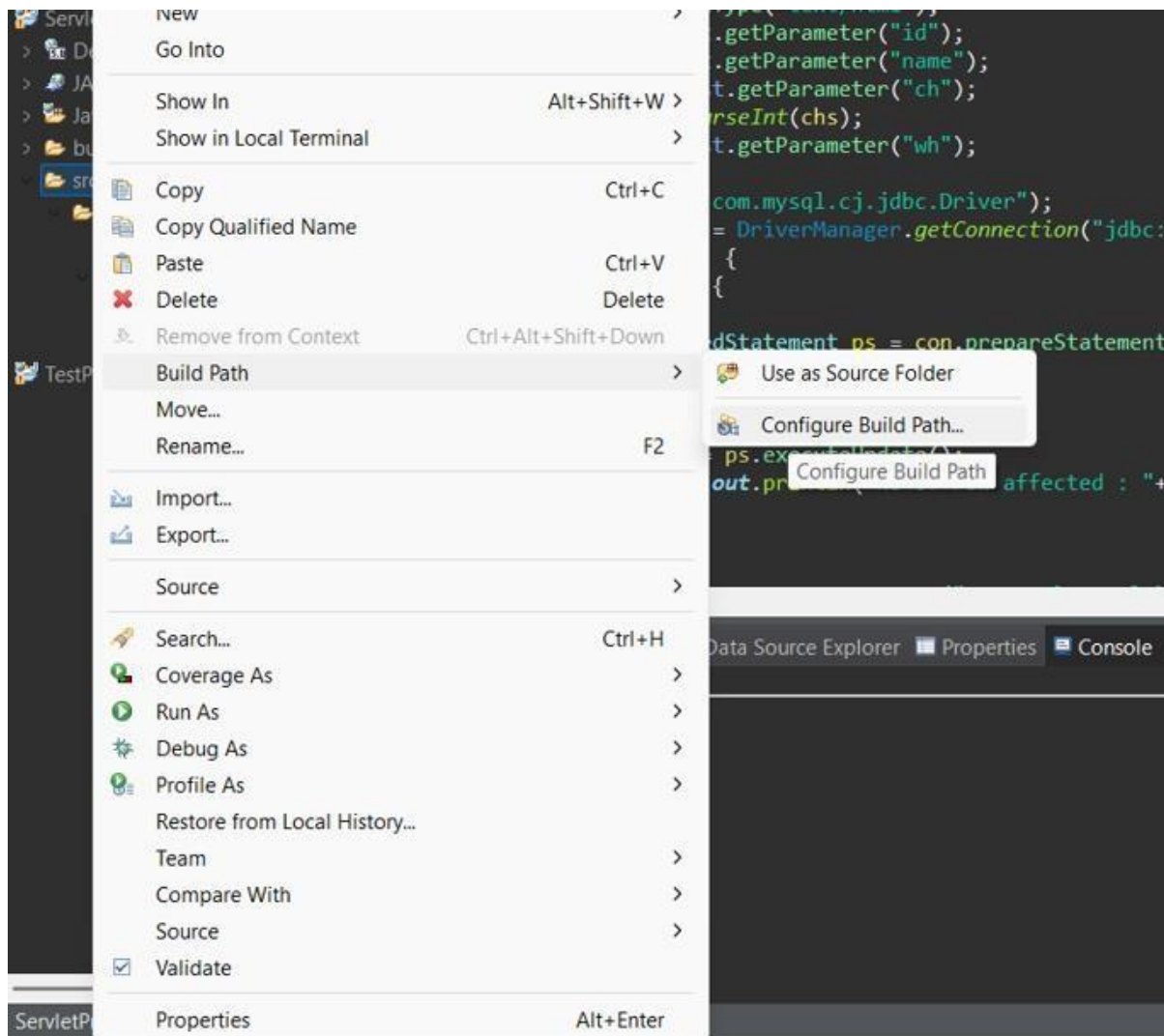


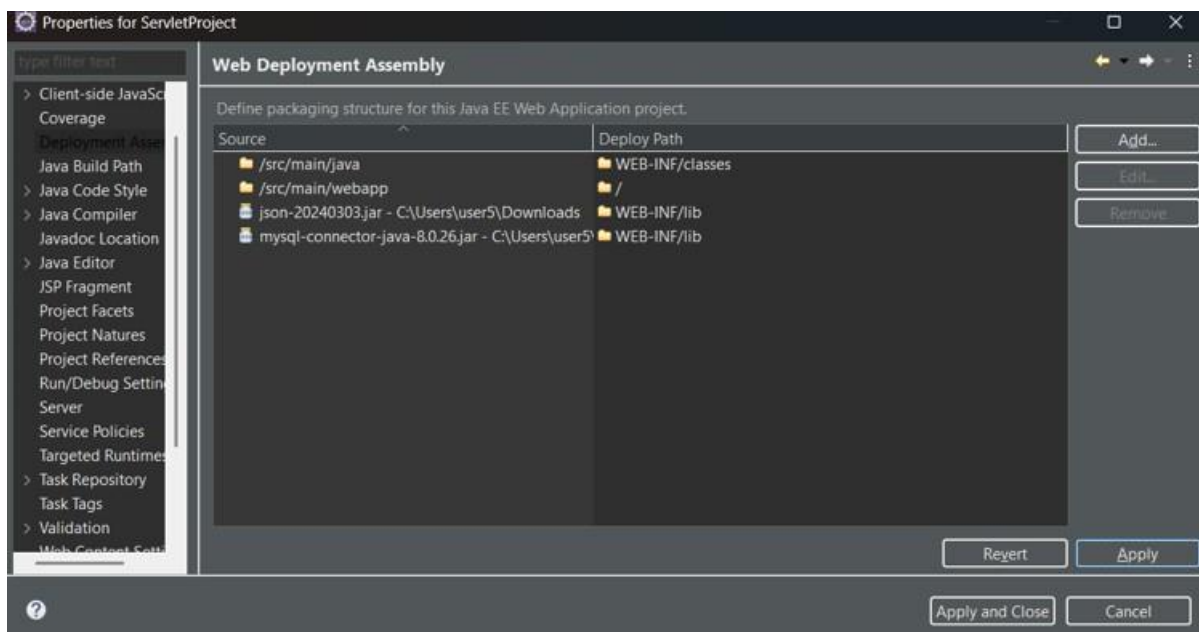
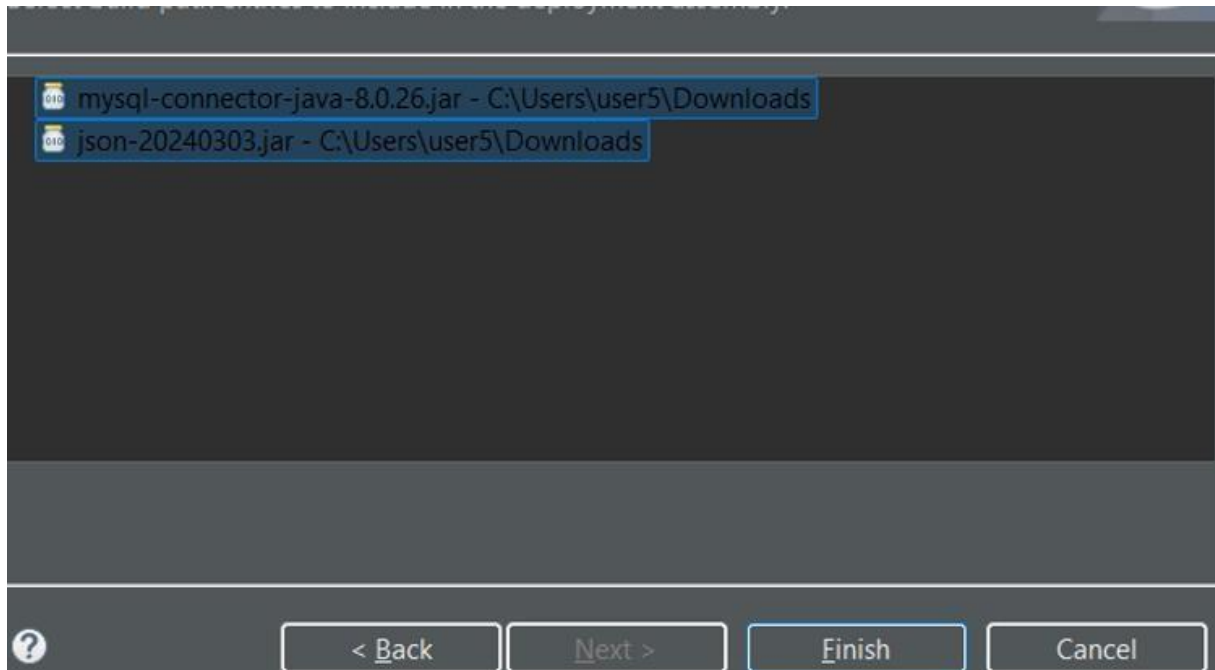
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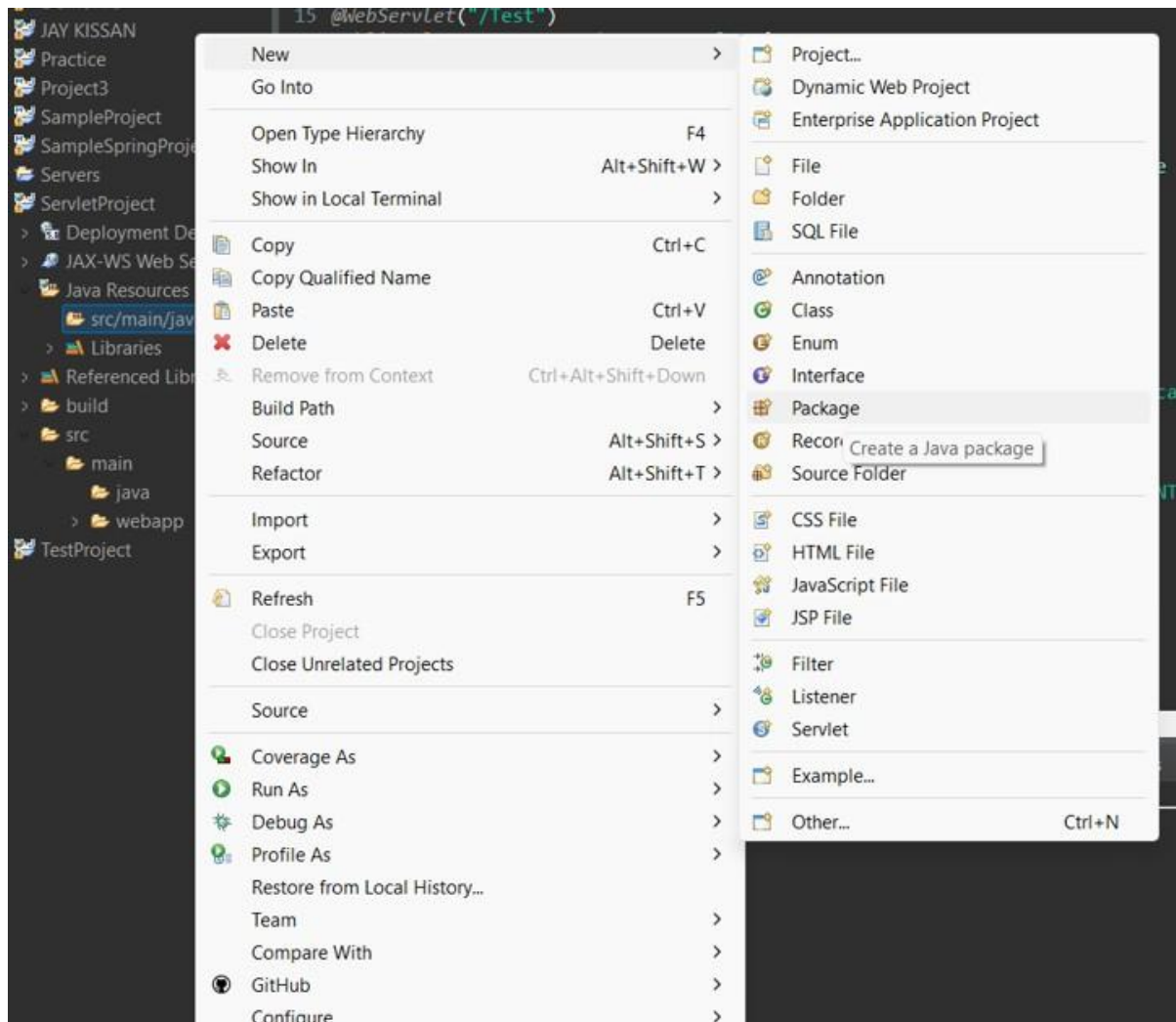
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Finish

Cancel







 **New Java Package**


Java Package
Create a new Java package.

Creates folders corresponding to packages.

Source folder:

Name:

☐ **Create package-info.java**
☐ Generate comments (configure templates and default value [here](#))

 **Create Servlet**

Create Servlet
Specify class file destination.

Project:

Source folder:

Java package:

Class name:

Superclass:

☐ **Use an existing Servlet class or JSP**
Class name:

Actual Code :

```
package com.smk;
```

```
import jakarta.servlet.ServletException;
```

```
import jakarta.servlet.annotation.WebServlet;
```



```

import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

/**
 * Servlet implementation class CourseFeedback
 */
@WebServlet("/CourseFeedback")
public class CourseFeedback extends HttpServlet {
    private static final long serialVersionUID = 1L;

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

    /**
     * @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)
     */
    protected void service(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        String id = request.getParameter("id");
        String courseId = request.getParameter("course_id");
        String studentName = request.getParameter("student_name");
        String feedback = request.getParameter("feedback");
        String chs = request.getParameter("ch");
        int ch = Integer.parseInt(chs);
        String whs = request.getParameter("wh");
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3307/course_feedback", "root", "");
            if (con != null) {
                switch (ch) {
                    case 1:
                        PreparedStatement ps = con.prepareStatement("INSERT INTO
`feedback`(`course_id`, `student_name`, `feedback`) VALUES (?, ?, ?)");

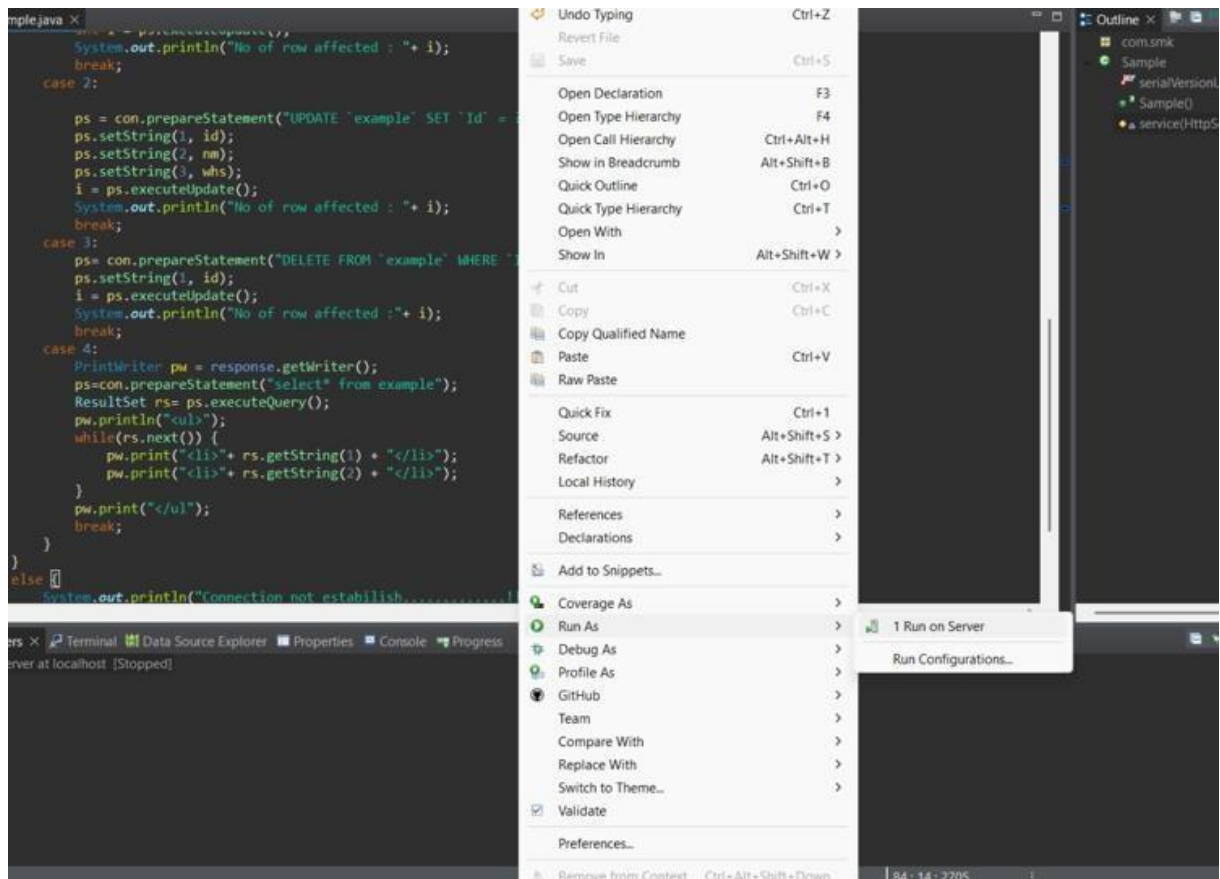
```

```

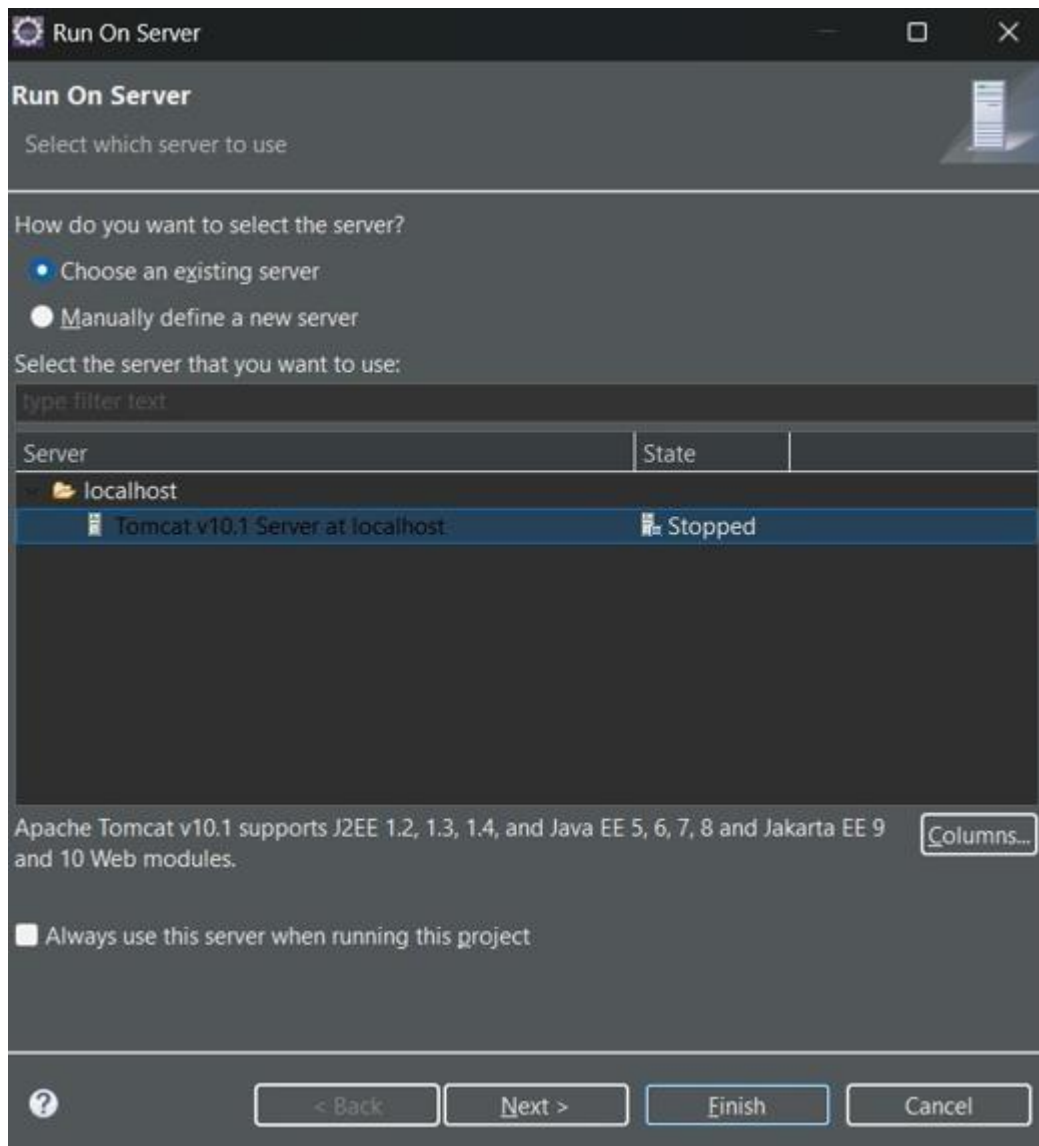
        ps.setString(1, courseId);
        ps.setString(2, studentName);
        ps.setString(3, feedback);

        int i = ps.executeUpdate();
        System.out.println("No of row affected : " + i);
        break;
    case 2:
        ps = con.prepareStatement("UPDATE `feedback` SET `course_id` = ?,
`student_name` = ?, `feedback` = ? WHERE `id` = ?");
        ps.setString(1, courseId);
        ps.setString(2, studentName);
        ps.setString(3, feedback);
        ps.setString(4, whs);
        i = ps.executeUpdate();
        System.out.println("No of row affected : " + i);
        break;
    case 3:
        ps = con.prepareStatement("DELETE FROM `feedback` WHERE `id` = ?");
        ps.setString(1, id);
        i = ps.executeUpdate();
        System.out.println("No of row affected : " + i);
        break;
    case 4:
        PrintWriter pw = response.getWriter();
        ps = con.prepareStatement("SELECT * FROM feedback");
        ResultSet rs = ps.executeQuery();
        pw.println("<ul>");
        while (rs.next()) {
            pw.print("<li>" + rs.getString("id") + " - " + rs.getString("course_id") + " - " +
rs.getString("student_name") + " - " + rs.getString("feedback") + "</li>");
        }
        pw.print("</ul>");
        break;
    }
} else {
    System.out.println("Connection not established..... !!");
}
} catch (Exception e) {
    System.out.println(e);
}
}
}

```



For Running the code... (Run as-> Run on Server)



Select Tomcat Server 10.1

Output :