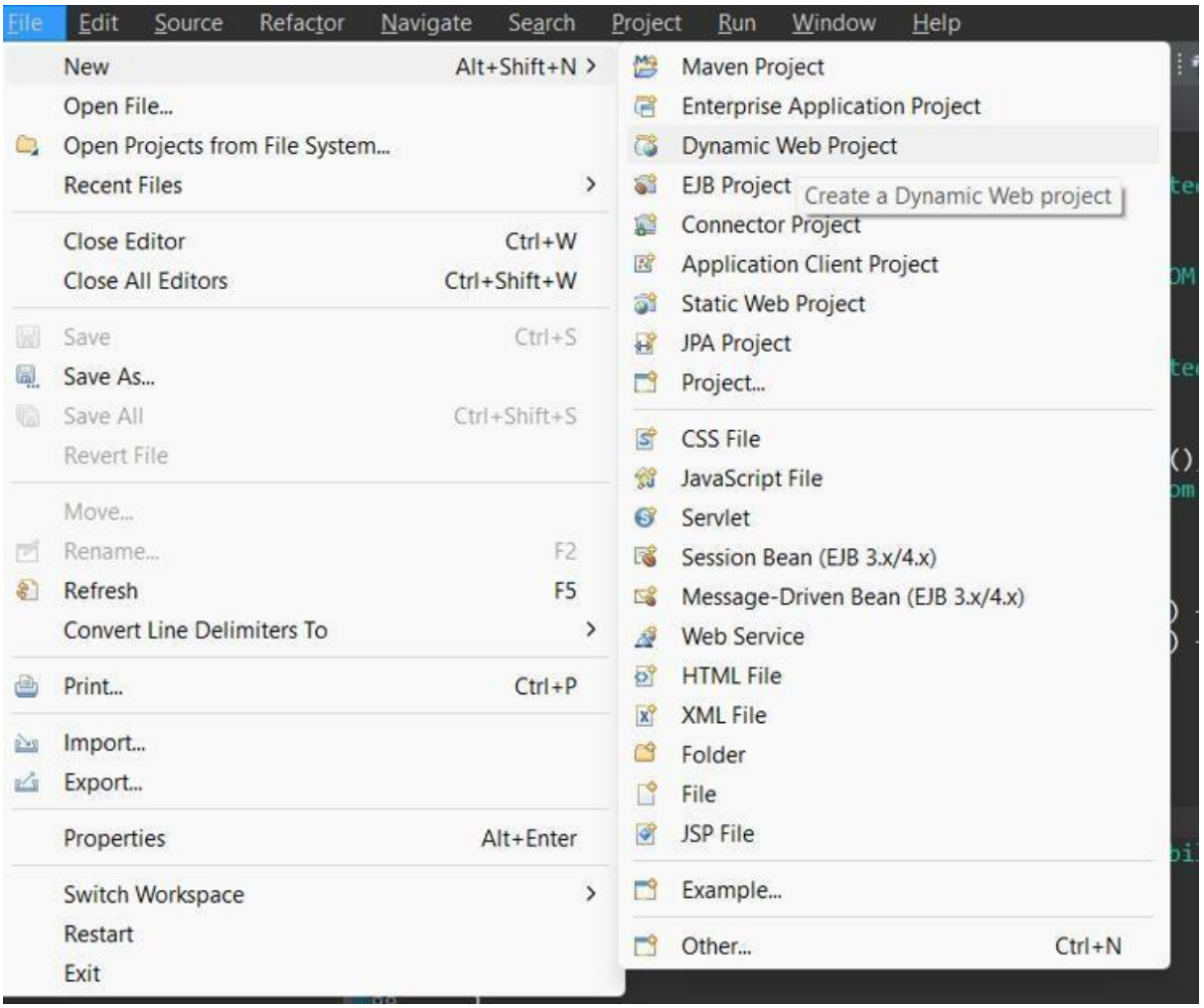
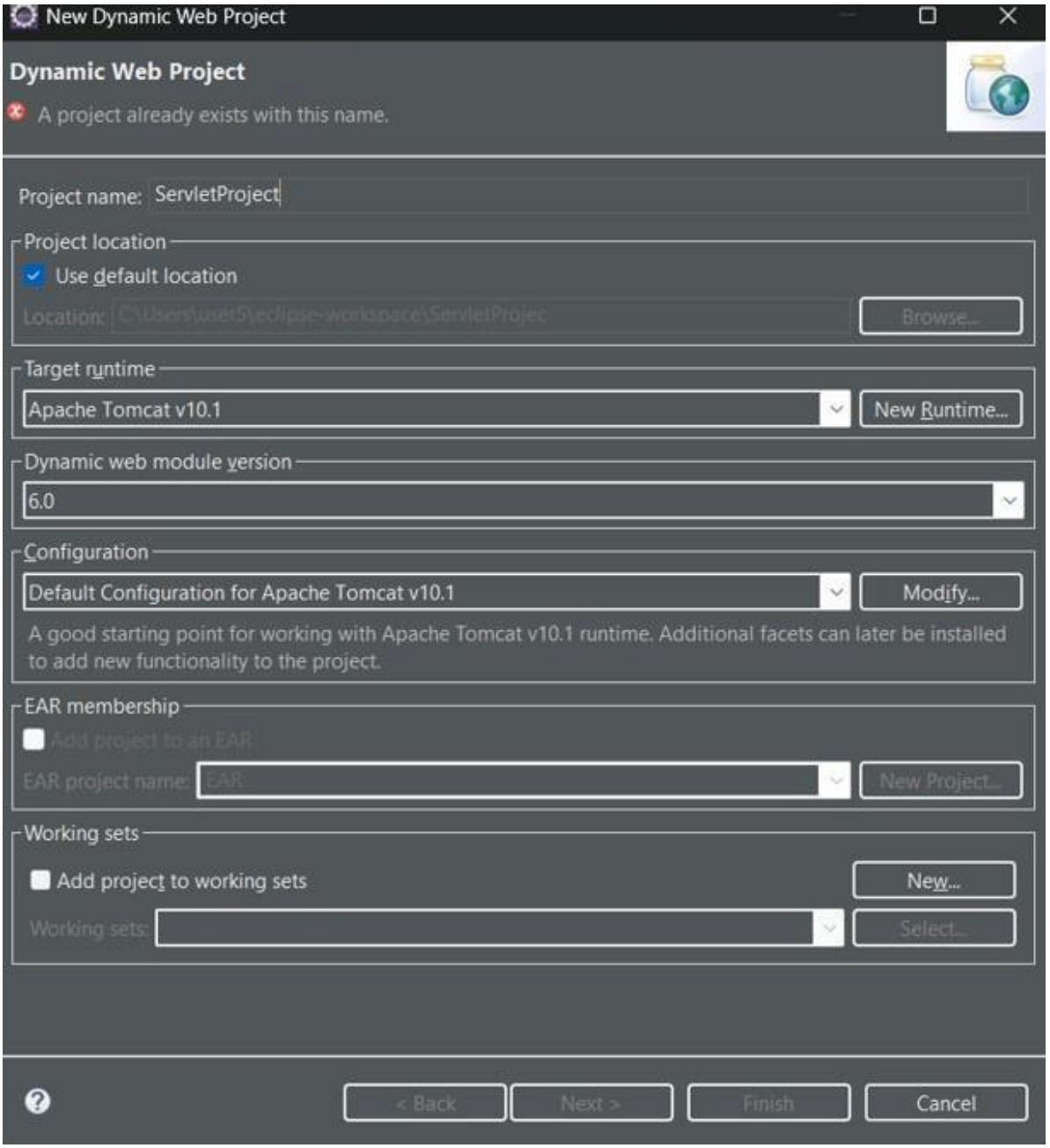
Assignment : 02

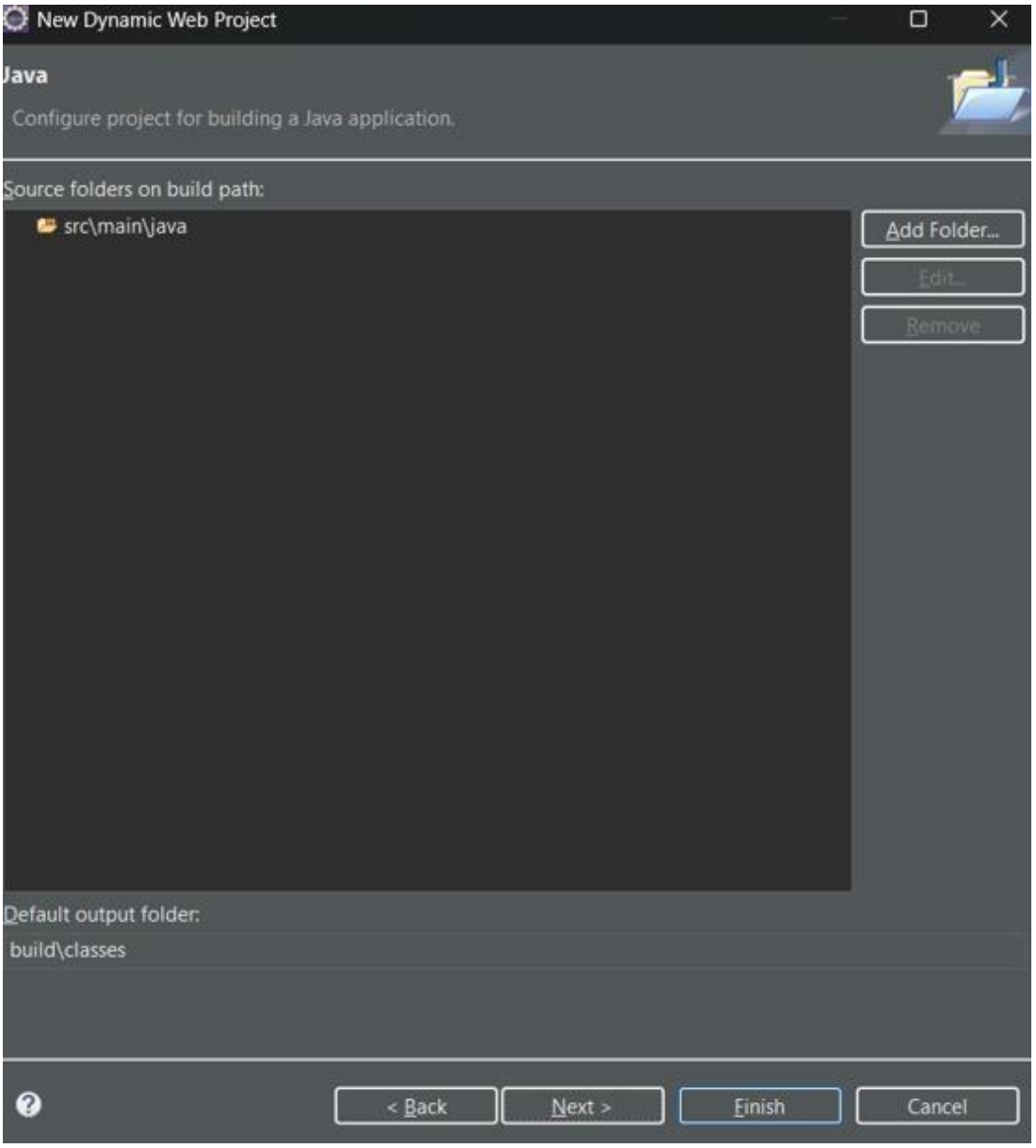
Name : Labade Yash
Roll No : 92 Div : B
PRN No. : UCS22M1079

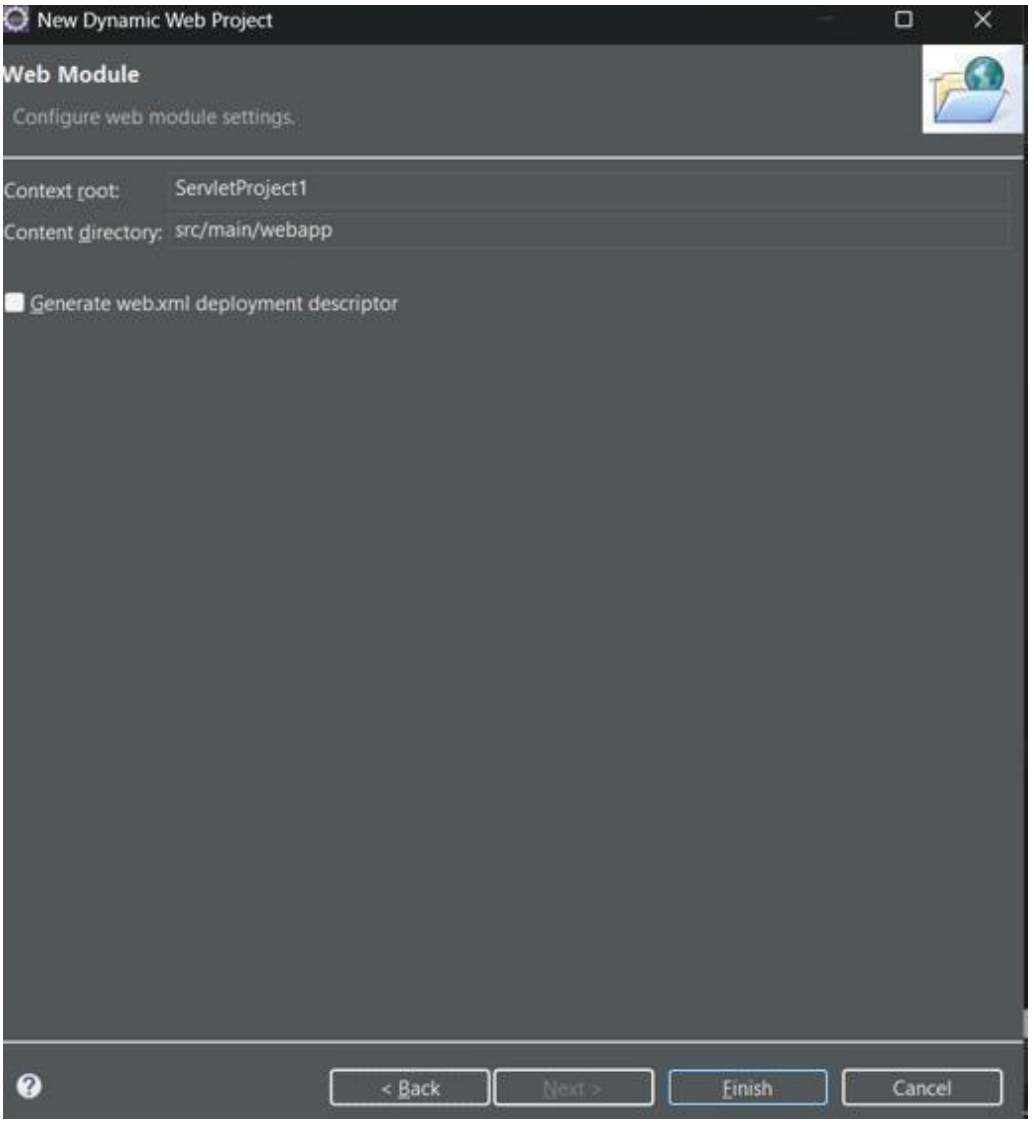
Problem : Implement MVC based web application using Servlet

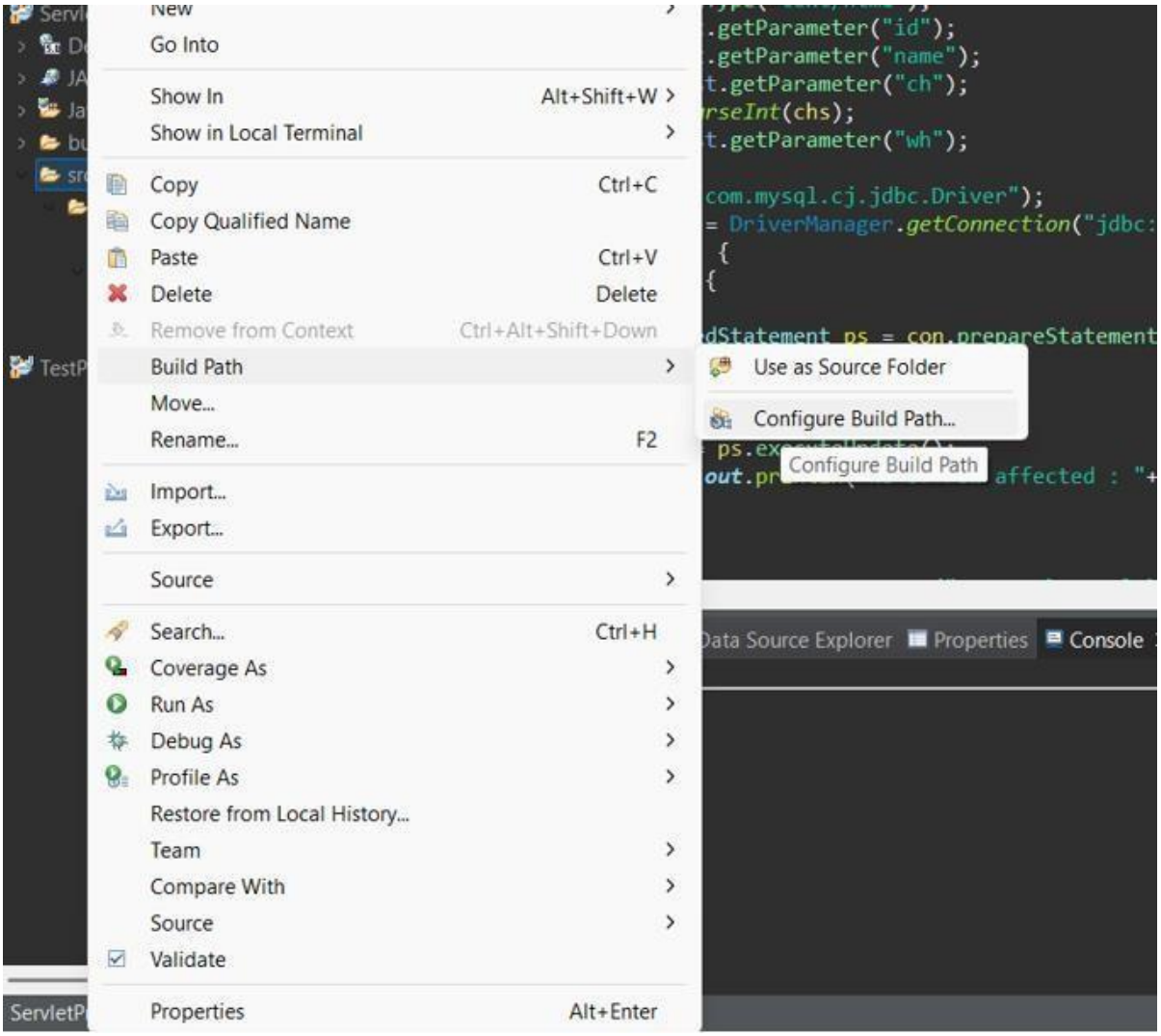
Step 1 :

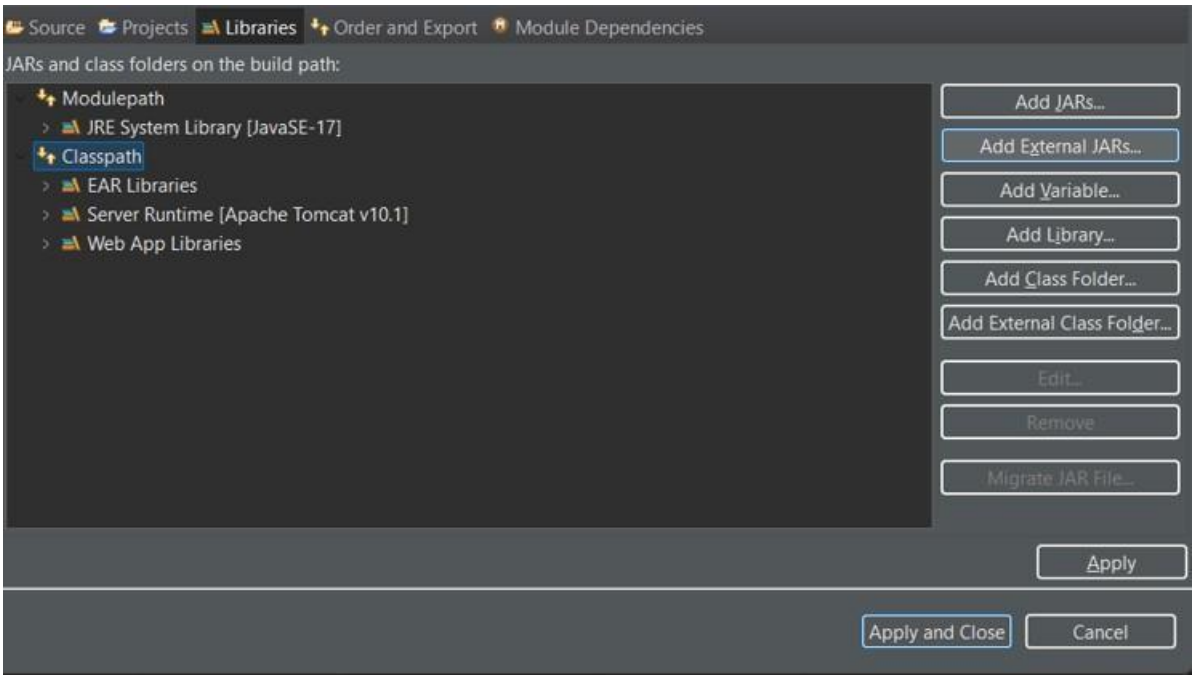


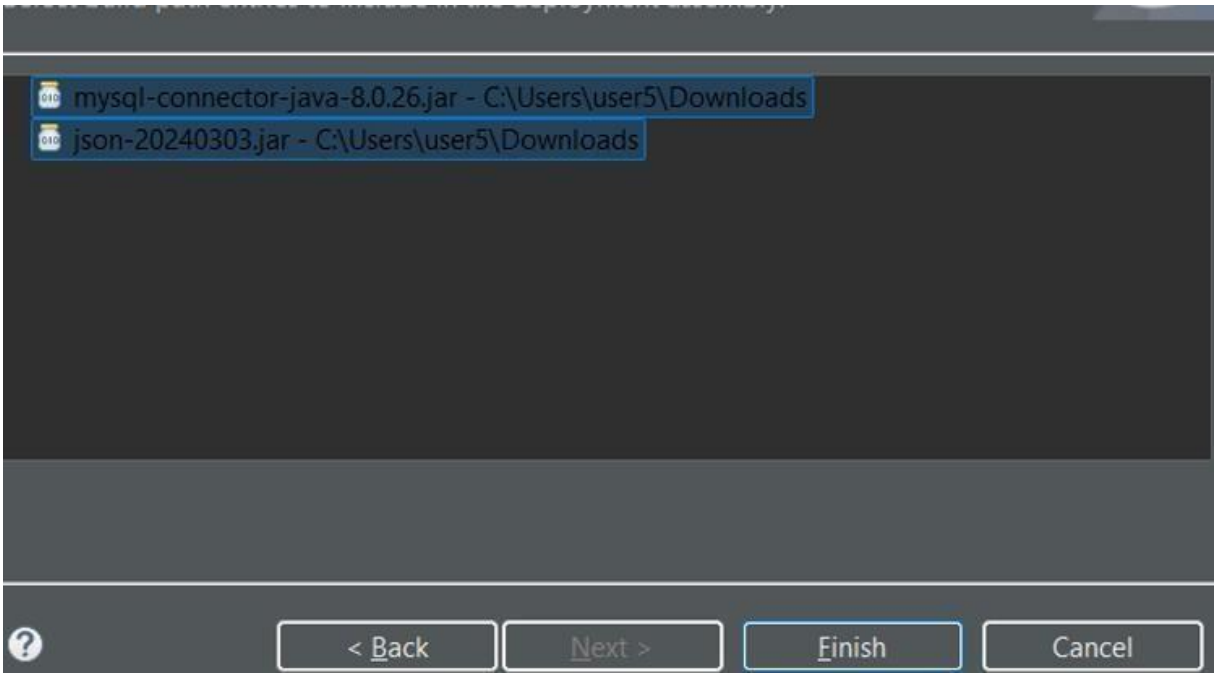

New Dynamic Web Project
Dynamic Web Project
A project already exists with this name.
Project name: ServletProject
Project location
Use default location
Location: C:\Users\user5\eclipse-workspace\ServletProjec
Browse...
Target runtime
Apache Tomcat v10.1
New Runtime...
Dynamic web module version
6.0
Configuration
Default Configuration for Apache Tomcat v10.1
Modify...
A good starting point for working with Apache Tomcat v10.1 runtime. Additional facets can later be installed to add new functionality to the project.
EAR membership
Add project to an EAR
EAR project name: EAR
New Project...
Working sets
Add project to working sets
New...
Working sets:
Select...
< Back
Next >
Finish
Cancel

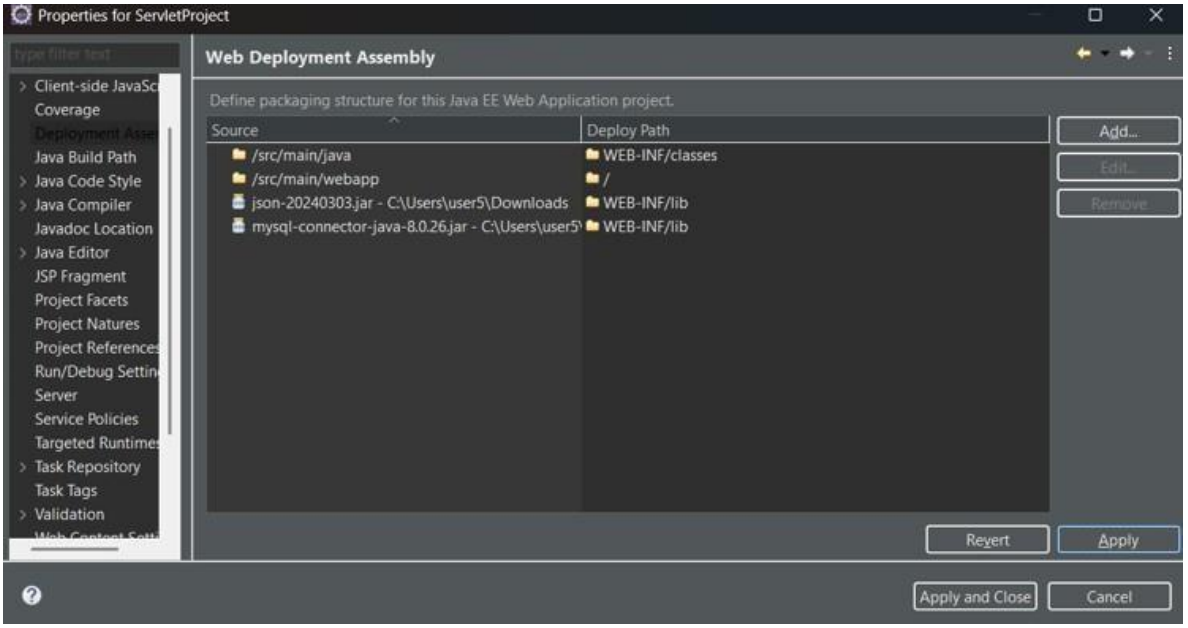

New Dynamic Web Project
Java
Configure project for building a Java application.
Source folders on build path:
src\main\java
Add Folder...
Edit...
Remove
Default output folder:
build\classes
< Back
Next >
Finish
Cancel

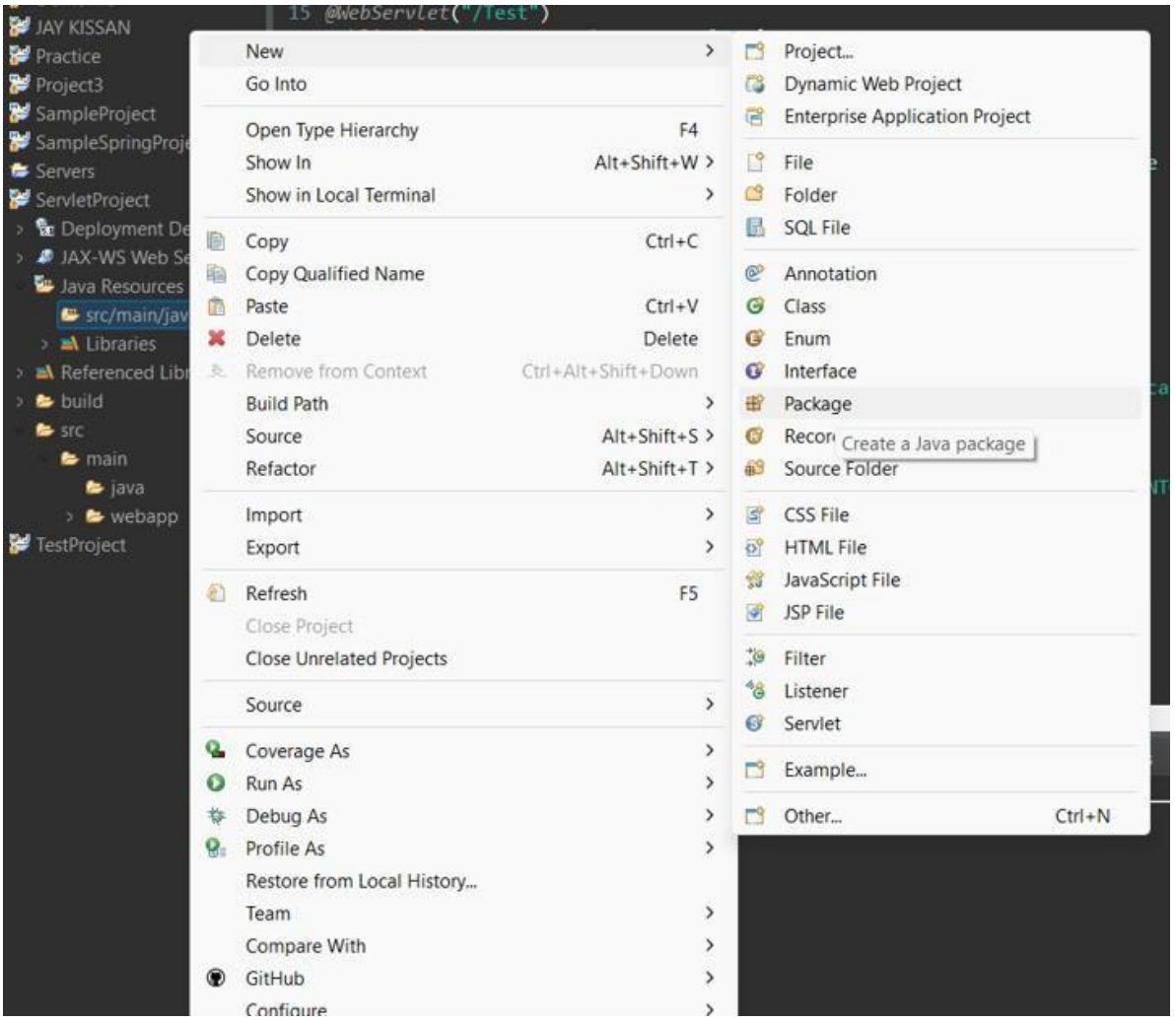

New Dynamic Web Project
Web Module
Configure web module settings.
Context root:
ServletProject1
Content directory:
src/main/webapp
Generate web.xml deployment descriptor
< Back
Next >
Finish
Cancel

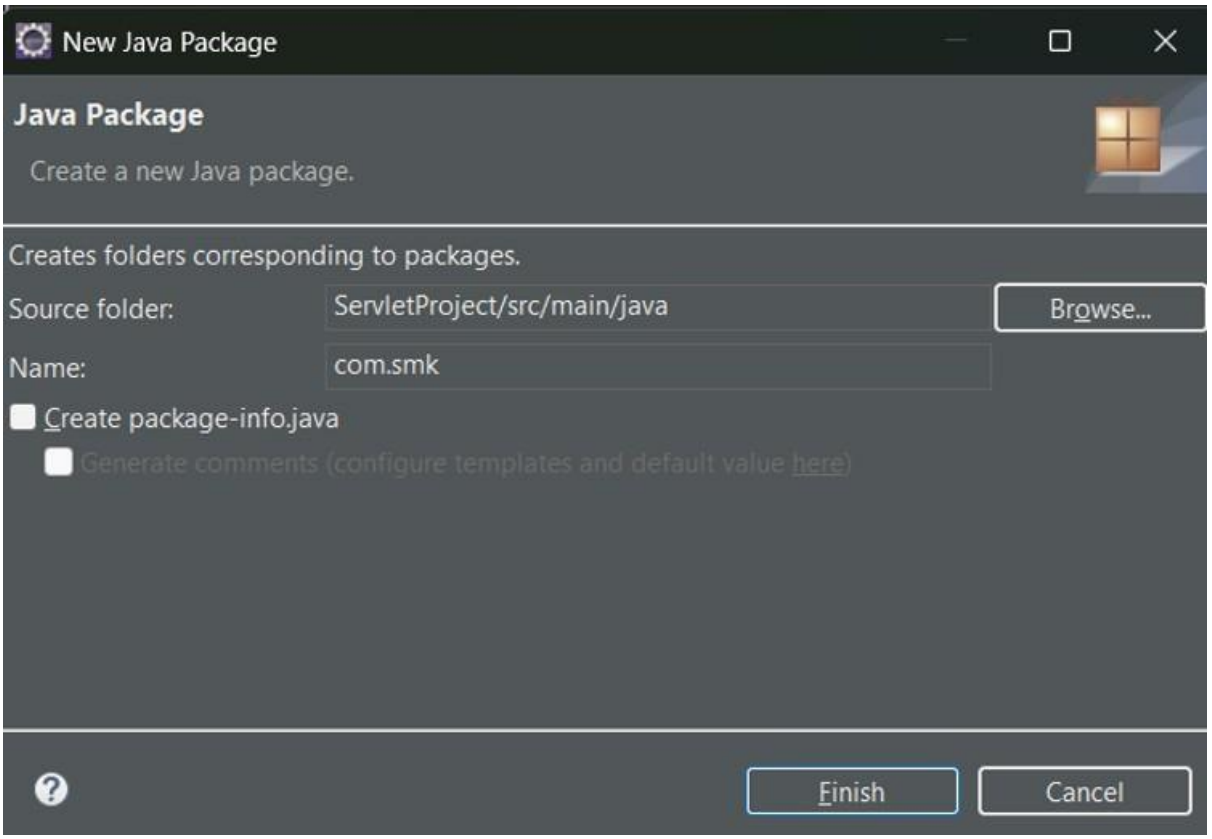

New
Go Into
Show In Alt+Shift+W
Show in Local Terminal
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Move...
Rename... F2
Import...
Export...
Source
Search... Ctrl+H
Coverage As
Run As
Debug As
Profile As
Restore from Local History...
Team
Compare With
Source
Validate
Properties Alt+Enter
Use as Source Folder
Configure Build Path...
Configure Build Path
.getParameter("id");
.getParameter("name");
t.getParameter("ch");
rseInt(chs);
t.getParameter("wh");
com.mysql.cj.jdbc.Driver");
= DriverManager.getConnection("jdbc:
{
{
dStatement ps = con.prepareStatement
affected : "+
Data Source Explorer
Properties
Console

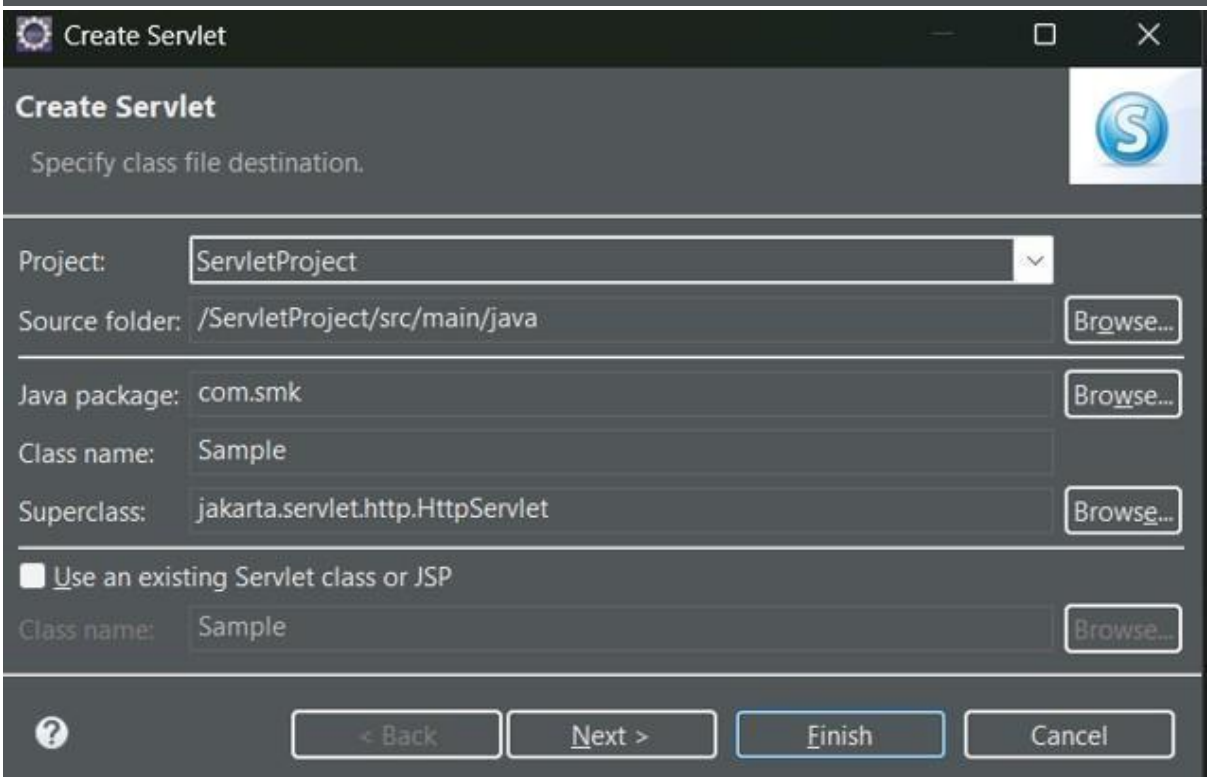

Source
Projects
Libraries
Order and Export
Module Dependencies
JARs and class folders on the build path:
Modulepath
JRE System Library [JavaSE-17]
Classpath
EAR Libraries
Server Runtime [Apache Tomcat v10.1]
Web App Libraries
Add JARs...
Add External JARs...
Add Variable...
Add Library...
Add Class Folder...
Add External Class Folder...
Edit...
Remove
Migrate JAR File...
Apply
Apply and Close
Cancel


mysql-connector-java-8.0.26.jar - C:\Users\user5\Downloads
json-20240303.jar - C:\Users\user5\Downloads
< Back
Next >
Finish
Cancel


Properties for ServletProject
Web Deployment Assembly
Define packaging structure for this Java EE Web Application project.
Source
Deploy Path
/src/main/java
WEB-INF/classes
/src/main/webapp
/
json-20240303.jar - C:\Users\user5\Downloads
WEB-INF/lib
mysql-connector-java-8.0.26.jar - C:\Users\user5\
WEB-INF/lib
Add...
Edit...
Remove
Revert
Apply
Apply and Close
Cancel


JAY KISSAN
Practice
Project3
SampleProject
SampleSpringProje
Servers
ServletProject
Deployment De
JAX-WS Web Se
Java Resources
src/main/jav
Libraries
Referenced Libr
build
src
main
java
webapp
TestProject
@WebServlet("/Test")
New
Go Into
Open Type Hierarchy F4
Show In Alt+Shift+W
Show in Local Terminal
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Source Alt+Shift+S
Refactor Alt+Shift+T
Import
Export
Refresh F5
Close Project
Close Unrelated Projects
Source
Coverage As
Run As
Debug As
Profile As
Restore from Local History...
Team
Compare With
GitHub
Configure
Project...
Dynamic Web Project
Enterprise Application Project
File
Folder
SQL File
Annotation
Class
Enum
Interface
Package
Recor
Create a Java package
Source Folder
CSS File
HTML File
JavaScript File
JSP File
Filter
Listener
Servlet
Example...
Other... Ctrl+N



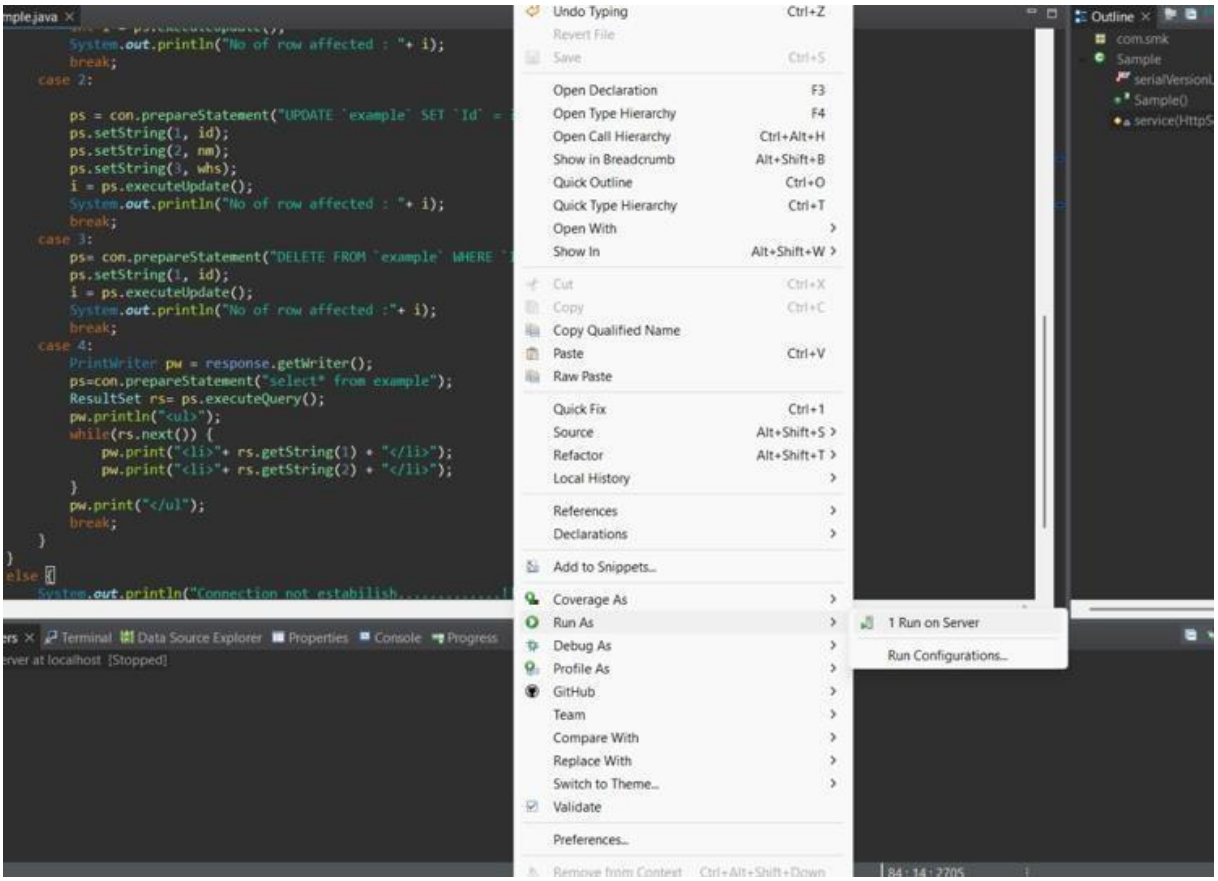


Actual Code :

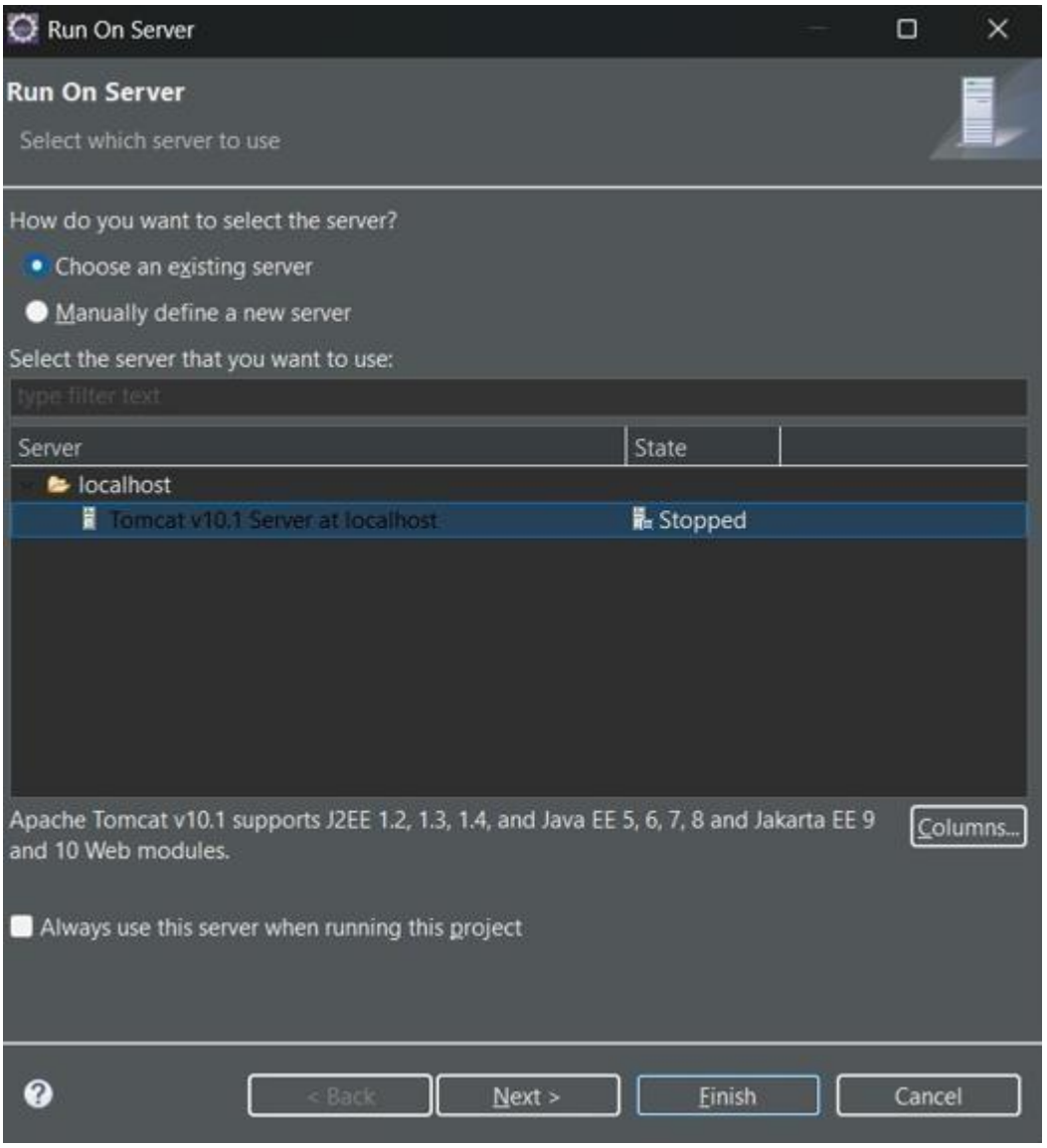
```
package com.smk;

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 :