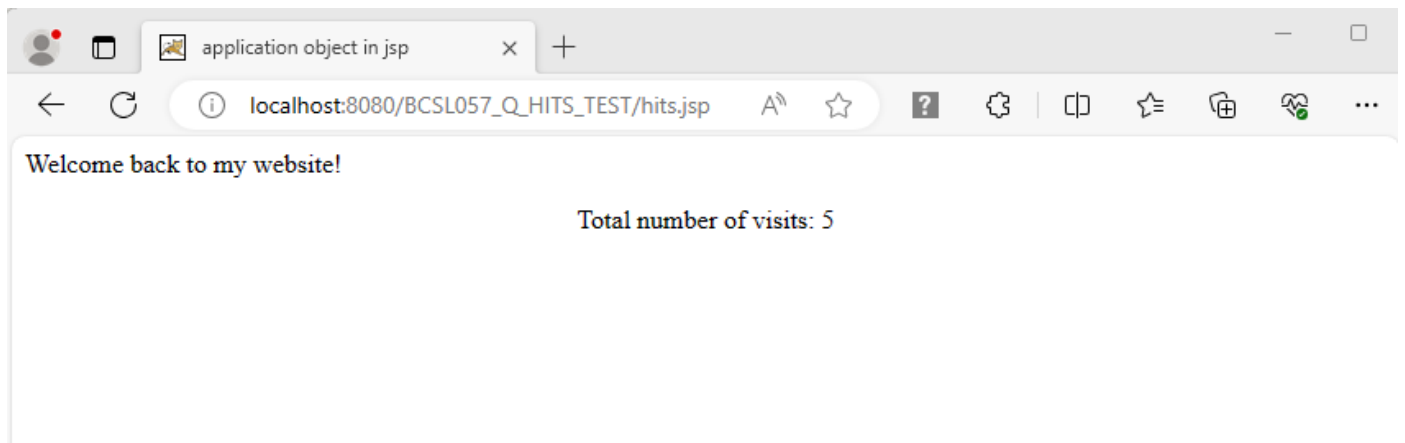


Q5. Hits.jsp



Q6 Servlet get and post

The first screenshot shows a web browser window titled 'Student Form' at the URL 'localhost:8080/BCSL057_Q6_servelet/'. The page has a heading 'Enter your First Name and Last Name'. It contains two identical form sections. The first section has 'First Name' set to 'TEST' and 'Last Name' set to 'GET', with a 'Submit (GET)' button. The second section has 'First Name' set to 'TEST' and 'Last Name' set to 'POST', with a 'Submit (POST)' button.

The second screenshot shows a web browser window titled 'Form Data' at the URL 'localhost:8080/BCSL057_Q6_servelet/StudentS...'. The page has a heading 'Form Data Submitted:'. It displays the submitted data: 'First Name (POST): TEST' and 'Last Name (POST): POST'.

Code:

Index.html

```
<!DOCTYPE  
html>
```

```
<html lang="en">  
<head>  
<meta charset="UTF-8">  
<meta name="viewport" content="width=device-width,  
initial-scale=1.0">  
<title>Student Form</title>  
</head>
```

```

<body>
<h2>Enter your First Name and Last Name</h2>
<form action="StudentServlet" method="get">
<label for="firstName">First Name:</label>
<input type="text" id="firstName" name="firstName"
required>
<br>
<label for="lastName">Last Name:</label>
<input type="text" id="lastName" name="lastName"
required>
<br>
<button type="submit">Submit (GET)</button>
</form>
<br>
<form action="StudentServlet" method="post">
<label for="firstNamePost">First Name:</label>
<input type="text" id="firstNamePost"
name="firstNamePost" required>
<br>
<label for="lastNamePost">Last Name:</label>
<input type="text" id="lastNamePost" name="lastNamePost"
required>
<br>
<button type="submit">Submit (POST)</button>
</form>
</body>
</html>

```

Code: StudentServlet.java

```

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;

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

    @Override

```

```
protected void doGet(HttpServletRequest request, HttpServletResponse
response)

    throws IOException {
    processRequest(request, response);
}
```

@Override

```
protected void doPost(HttpServletRequest request, HttpServletResponse
response)

    throws IOException {
    processRequest(request, response);
}
```

```
private void processRequest(HttpServletRequest request,
HttpServletResponse response)
```

```
    throws IOException {
    response.setContentType("text/html;charset=UTF-8");
```

```
    String firstName = request.getParameter("firstName");
```

```
    String lastName = request.getParameter("lastName");
```

```
    String firstNamePost = request.getParameter("firstNamePost");
```

```
    String lastNamePost = request.getParameter("lastNamePost");
```

```
    PrintWriter out = response.getWriter();
```

```
    out.println("<html>");
```

```
    out.println("<head>");
```

```
    out.println("<title>Form Data</title>");
```

```
    out.println("</head>");
```

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

```
    out.println("<h2>Form Data Submitted:</h2>");
```

```
    if (firstName != null && lastName != null) {
```

```
        out.println("<p>First Name (GET): " + firstName + "</p>");
```

```
        out.println("<p>Last Name (GET): " + lastName + "</p>");
```

```
    }
```

```
    if (firstNamePost != null && lastNamePost != null) {
```

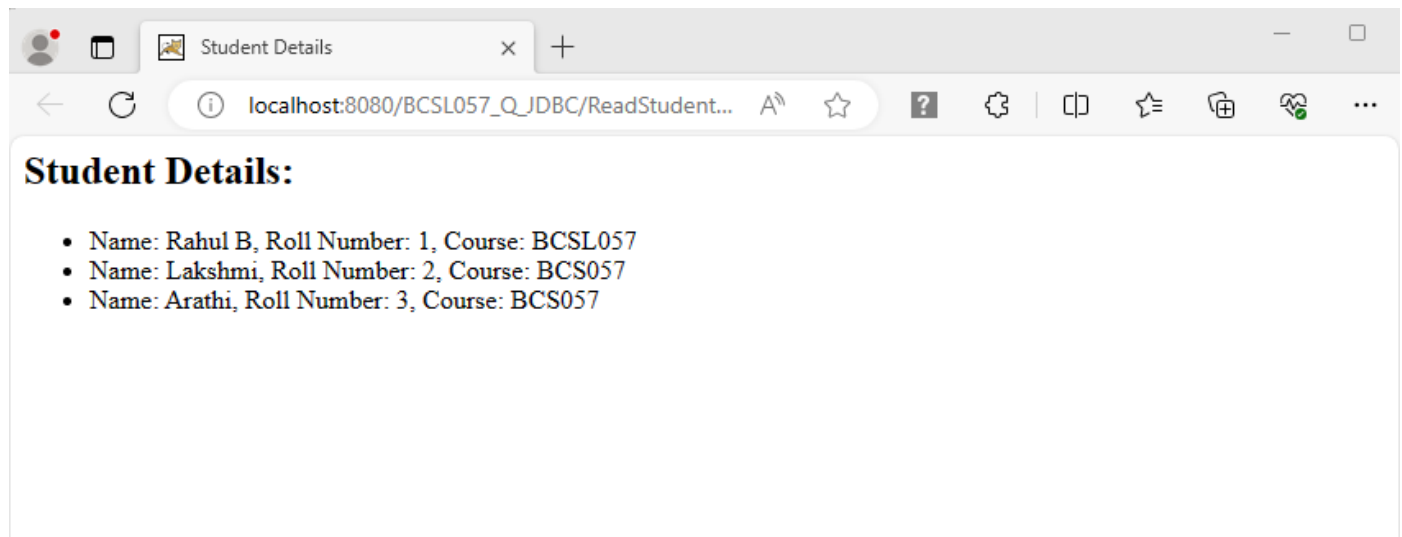
```
        out.println("<p>First Name (POST): " + firstNamePost + "</p>");
```

```
        out.println("<p>Last Name (POST): " + lastNamePost + "</p>");
    }

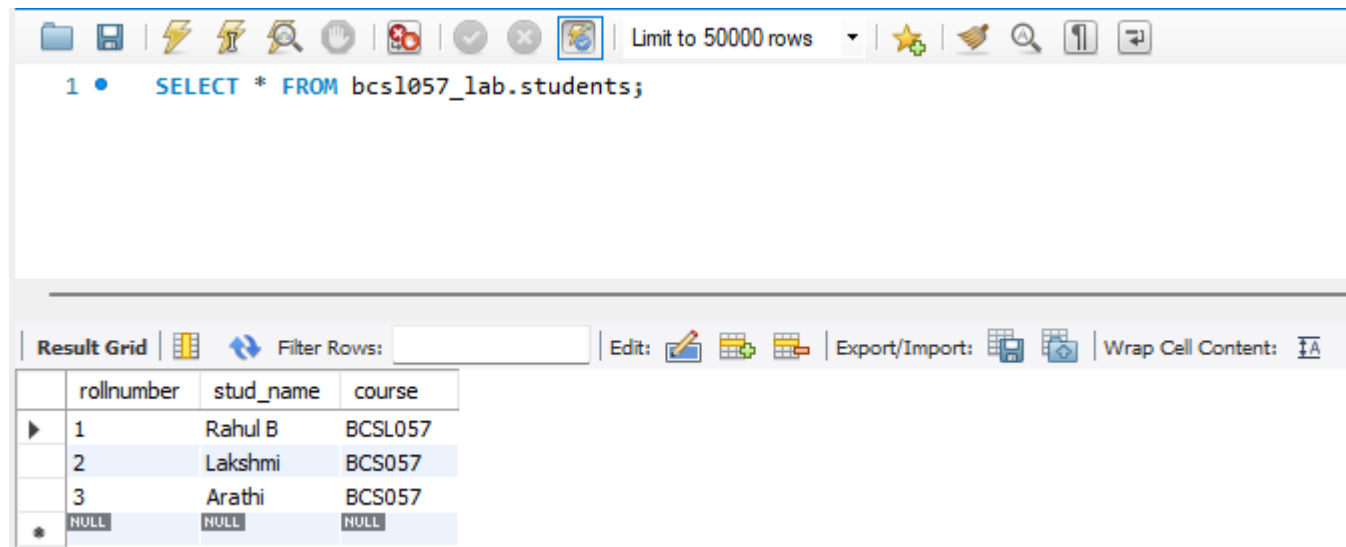
    out.println("</body>");
    out.println("</html>");
}
}
```

Q7. JDBC

Output:



DB:



Code

ReadStudentServlet.java

```
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.SQLException;

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

```

import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse
response)
        throws IOException {
        response.setContentType("text/html;charset=UTF-8");

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
        } catch (ClassNotFoundException e) {
        }

        try (Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bcs1057_lab",
"labuser", "password")) {
            String query = "SELECT * FROM students";

            try (PreparedStatement preparedStatement =
connection.prepareStatement(query);

                ResultSet resultSet = preparedStatement.executeQuery()) {
                PrintWriter out = response.getWriter();

                out.println("<html><head><title>Student
Details</title></head><body><h2>Student Details:</h2><ul>");

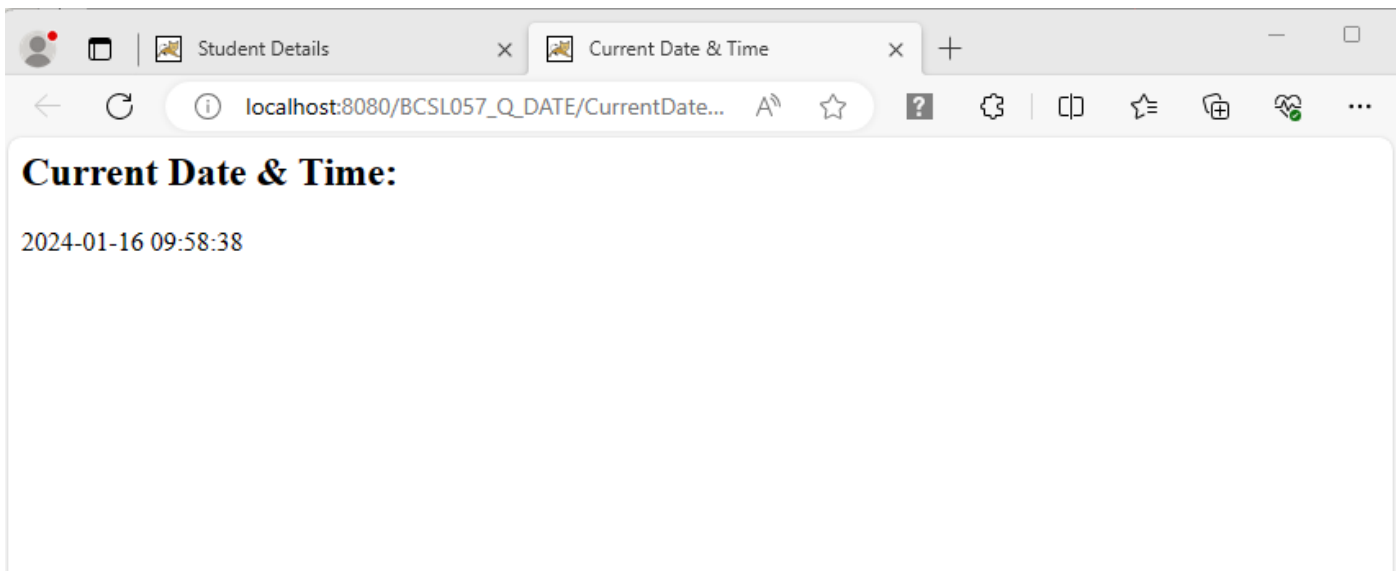
                while (resultSet.next()) {
                    int rollnumber = resultSet.getInt("rollnumber");
                    String stud_name = resultSet.getString("stud_name");
                    String course = resultSet.getString("course");

                    out.println("<li>Name: " + stud_name +
                                ", Roll Number: " + rollnumber + ", Course: " +
course + "</li>");
                }

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

```

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

Code

CurrentDateServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import java.text.SimpleDateFormat;
import java.util.Date;

import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

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

    protected void doGet(HttpServletRequest request, HttpServletResponse
response)
        throws IOException {
        response.setContentType("text/html;charset=UTF-8");

        PrintWriter out = response.getWriter();
        out.println("<html>");
        out.println("<head>");
```

```
out.println("<title>Current Date & Time</title>");
out.println("</head>");
out.println("<body>");
out.println("<h2>Current Date & Time:</h2>");

// Get the current date and format it
SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd
HH:mm:ss");
String currentDate = dateFormat.format(new Date());

out.println("<p>" + currentDate + "</p>");

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