



Worksheet 1

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Branch: MCA

Semester: 2nd

Subject Name: Advanced internet programming

UID: 24MCA20045

Section/Group: 1-A

Date of Performance: 18-01-2025

Subject Code: 24CAP-652

1. Aim/Overview of the practical:

Create a simple client server communication application while creating a HTML with form and two input fields like First Name and Last Name. Submit the data to a servlet where the form data is retrieved and displayed. Create form with GET method and another with POST method.

2. Apparatus:

- Software requirements(Apache NetBeans IDE)

3. Coding:

HTML code:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Styled Client-Server Communication</title>
```

```
</head>
```



```
<body>
```

```
<div class="container">
```

```
<h2>Client-Server Communication</h2>
```

```
<form action="FormServlet" method="GET">
```

```
<label for="firstName">First Name:</label>
```

```
<input type="text" id="firstName" name="firstName" placeholder="Enter your first name" required>
```

```
<label for="lastName">Last Name:</label>
```

```
<input type="text" id="lastName" name="lastName" placeholder="Enter your last name" required>
```

```
<button type="submit">Submit with GET</button>
```

```
</form>
```

```
<form action="FormServlet" method="POST">
```

```
<label for="firstNamePost">First Name:</label>
```

```
<input type="text" id="firstNamePost" name="firstName" placeholder="Enter your first name" required>
```

```
<label for="lastNamePost">Last Name:</label>
```

```
<input type="text" id="lastNamePost" name="lastName" placeholder="Enter your last name" required>
```

```
<button type="submit">Submit with POST</button>
```

```
</form>
```

```
<footer>
```

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</footer>

</div>

</body>

</html>

Servlet Code:

```
/*  
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 * Click nbfs://nbhost/SystemFileSystem/Templates/JSP_Servlet/Servlet.java to edit this template  
 */  
  
import java.io.IOException;  
import java.io.PrintWriter;  
import jakarta.servlet.ServletException;  
import jakarta.servlet.annotation.WebServlet;  
import jakarta.servlet.http.HttpServlet;  
import jakarta.servlet.http.HttpServletRequest;  
import jakarta.servlet.http.HttpServletResponse;  
  
/**  
 *  
 * @author harsh  
 */  
  
@WebServlet(urlPatterns = {"/NewServlet"})  
public class NewServlet extends HttpServlet {
```

/**

* Processes requests for both HTTP `GET` and `POST`

* methods.

*

* @param request servlet request

* @param response servlet response

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

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

{

response.getWriter().println("<h1>Thank you for contacting us!</h1>");

response.getWriter().println("firstName: " + firstName + "
");

response.getWriter().println("lastName: " + lastName + "
");

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/**

* Handles the HTTP `GET` method.

*

* @param request servlet request

* @param response servlet response

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

/**

* Handles the HTTP `POST` method.

*

* @param request servlet request

* @param response servlet response

* @throws ServletException if a servlet-specific error occurs

* @throws IOException if an I/O error occurs

*/

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

```
throws ServletException, IOException {  
  
    processRequest(request, response);  
  
}  
  
/**  
  
 * Returns a short description of the servlet.  
  
 *  
 * @return a String containing servlet description  
 */  
  
@Override  
public String getServletInfo() {  
    return "Short description";  
}  
}  
// </editor-fold>
```

Screenshot and Output:

Client-Server Communication

First Name:

Last Name:

Submit with GET

First Name:

Last Name:

Submit with POST

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Thank you for contacting us!

firstName: HARSH
lastName: Jangid

4. Learning outcomes (What I have learnt):

- Differentiating between GET and POST methods and their practical applications.
- Writing Java servlets to handle HTTP requests and responses.
- Dynamically generating HTML content on the server side using servlets.
- Organizing web application files (HTML, servlet, and configuration) in a structured manner.
- Deploying the application on a servlet container like Apache Tomcat.

5. Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet Completion		08 marks
2.	Conduct		12 marks
3.	Viva Voice		10 marks
	Total		30 marks