

## 1. Write a program to demonstrate the differences between GET and POST using Servlet.

### GetServlet.java

```
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;

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

    protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
        String name = request.getParameter("name");

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        out.println("<h1>GET Request Response</h1>");
        out.println("<p>Hello, " + name + "!</p>");
        out.println("</body></html>");
    }
}
```

### PostServlet.java

```
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;

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

    protected void doPost(HttpServletRequest request, HttpServletResponse
        response) throws ServletException, IOException {
        String message = request.getParameter("message");

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        out.println("<h1>POST Request Response</h1>");
        out.println("<p>Message: " + message + "</p>");
    }
}
```

```

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

```

#### index.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>getpostexample</title>
</head>
<body>
<h1>GET and POST Requests Example</h1>

    <h2>GET Request</h2>
    <form action="getServlet" method="GET">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name">
        <br><br>
        <input type="submit" value="Submit">
    </form>

    <h2>POST Request</h2>
    <form action="postServlet" method="POST">
        <label for="message">Message:</label>
        <input type="text" id="message" name="message">
        <br><br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>

```

#### Web.xml

```

<?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_4_0.xsd"
    id="WebApp_ID" version="4.0">

    <display-name>GET and POST Example</display-name>

    <servlet>
        <servlet-name>GetServlet</servlet-name>
        <servlet-class>GetServlet</servlet-class>
    </servlet>

```

```
<servlet-mapping>
    <servlet-name>GetServlet</servlet-name>
    <url-pattern>/getServlet</url-pattern>
</servlet-mapping>

<servlet>
    <servlet-name>PostServlet</servlet-name>
    <servlet-class>PostServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>PostServlet</servlet-name>
    <url-pattern>/postServlet</url-pattern>
</servlet-mapping>

<welcome-file-list>
    <welcome-file>index.html</welcome-file>
</welcome-file-list>

</web-app>
```

## Output



The screenshot shows a web browser window with the title "getpostexample" and the address bar displaying "http://localhost:8181/GetandPostHandle/index.html". The page content includes a main heading "GET and POST Requests Example", a subheading "GET Request", a text input field labeled "Name:", and a "Submit" button. Below this, there is another subheading "POST Request", a text input field labeled "Message:", and another "Submit" button.

Console Servers getpostexample ×

http://localhost:8181/GetandPostHandle/index.html

# GET and POST Requests Example

## GET Request

Name:

## POST Request

Message:

