EXP 5 HTTP GET and POST methods

AIM:

To demonstrate the difference between HTTP GET and POST methods using a Java Servlet by creating a form that sends data using both methods.

ALGORITHM:

- Step 1: Create an HTML form with GET and POST methods.
- Step 2: Develop a Servlet (GetPostServlet.java) to handle requests.
- Step 3: Implement doGet () to handle GET requests.
- Step 4: Implement doPost() to handle POST requests.
- Step 5: Configure web.xml to map the Servlet to /GetPostServlet.
- Step 6: Run the server and observe how GET and POST work differently.

PROGRAM:

index.html (Form Page)

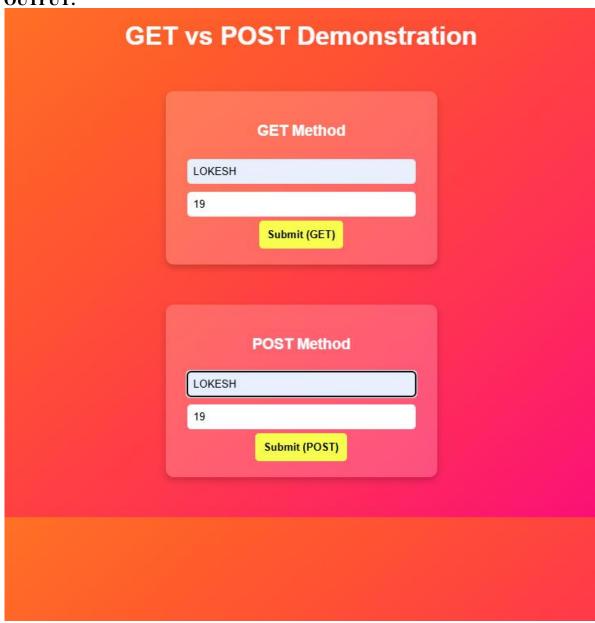
```
html CopyEdit <!DOCTYPE
html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>GET vs POST Demo</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h2>Choose GET or POST Method 2</h2>
    <form action="GetPostServlet" method="GET">
       <input type="text" name="username" placeholder="Enter your name" required>
<button type="submit">Submit with GET</button>
                                                    </form>
    <form action="GetPostServlet" method="POST">
```

```
<input type="text" name="username" placeholder="Enter your name" required>
<button type="submit">Submit with POST</button>
    </form>
  </div>
</body> </html>
styles.css css
CopyEdit body
{
    font-family: 'Poppins', sans-
serif;
  background: linear-gradient(to right, #36D1DC, #5B86E5);
                   display: flex; justify-content: center; align-items:
text-align: center;
         height: 100vh; margin: 0;
center;
}
              background: #fff;
.container {
                                 padding:
        border-radius: 15px;
                               box-shadow:
20px;
0 4px 8px rgba(0, 0, 0, 0.2);
width: 300px;
}
h2 {
      color: #5B86E5;
}
input {
        width: 90%;
padding: 10px; margin: 10px
   border: 1px solid
#5B86E5; border-radius:
8px; text-align: center;
button {
          background:
#36D1DC;
             color:
white; border: none;
padding: 10px 15px;
border-radius: 8px;
cursor: pointer;
                transition:
0.3s;
}
button:hover {
background: #1e6e8c; }
```

GetPostServlet.java (Servlet to Handle GET & POST) java

```
CopyEdit import java.io.IOException; import
java.io.PrintWriter; import
javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/GetPostServlet") public class
GetPostServlet extends HttpServlet {
                                    private static
final long serialVersionUID = 1L;
  // Handling GET Request
                              protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
     String name = request.getParameter("username");
     out.println("<html><body>");
     out.println("<h2>GET Method Received</h2>");
                                                         out.println("Hello,
<b>" + name + "</b>! Data sent using GET.");
out.println("</body></html>");
  }
  // Handling POST Request
                               protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
     String name = request.getParameter("username");
     out.println("<html><body>");
     out.println("<h2>POST Method Received</h2>");
                                                          out.println("Hello,
<b>" + name + "</b>! Data sent using POST.");
out.println("</body></html>");
  } }
web.xml (Servlet Configuration) xml
CopyEdit
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
<servlet>
     <servlet-name>GetPostServlet</servlet-name>
     <servlet-class>GetPostServlet</servlet-class>
  </servlet>
  <servlet-mapping>
```

OUTPUT:



RESULT: The Get and Post methods were executed successfully.	