LIST OF EXPERIMENT : 03

Write a Servlet program that prints "Hello, World!" when accessed through a browser

AIM : To Create a a Servlet program that prints Hello World quot when accessed through a browser

SOURCE CODE :

Create the Servlet Class (HelloWorldServlet.java:

```java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;


public class HelloWorldServlet extends HttpServlet {

  // Overriding the doGet method to handle HTTP GET requests
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
```

```java
        // Set the content type for the response to HTML
        response.setContentType("text/html");

        // Create a PrintWriter to write the response
        PrintWriter out = response.getWriter();

        // Start the HTML structure
        out.println("<html lang='en'>");
        out.println("<head>");
        out.println("<meta charset='UTF-8'>");
        out.println("<meta name='viewport' content='width=device-width, initial-scale=1.0'>");
        out.println("<title>Unique Hello World Servlet</title>");
        out.println("<style>");
        out.println("body { font-family: 'Arial', sans-serif; background-color: #f4f4f9; color: #333; text-align: center; padding: 50px; }");
        out.println("h1 { font-size: 3em; color: #4CAF50; }");
        out.println("p { font-size: 1.2em; margin-top: 20px; color: #555; }");
        out.println("</style>");
        out.println("</head>");
        out.println("<body>");

        // Print a unique Hello World message with a custom style
        out.println("<h1>Hello, World!</h1>");
        out.println("<p>Welcome to the world of Servlets! This is a unique Servlet program designed to showcase dynamic HTML output.</p>");

        // End the HTML structure
        out.println("</body>");
        out.println("</html>");

        // Close the PrintWriter to finish the response
        out.close();
    }
}
```

2. Configure the Servlet in web.xml (Deployment Descriptor) :

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
                http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
    version="3.0">


 <!-- Define the servlet -->
 <servlet>
    <servlet-name>HelloWorldServlet</servlet-name>
    <servlet-class>HelloWorldServlet</servlet-class>
 </servlet>


 <!-- Map the servlet to a specific URL pattern -->
 <servlet-mapping>
    <servlet-name>HelloWorldServlet</servlet-name>
    <url-pattern>/helloWorld</url-pattern>
 </servlet-mapping>

</web-app>
```

RESULT : Thus the Servlet program that prints quot Hello World quot when accessed through a browser is Verified Succesfully.

OUTPUT: