Develop a data driven servlet application for user authentication. Also display header values of request object and response object.

## LoginForm.java

```
<!DOCTYPE html>
<html>
<body>
<h2>Login Form</h2>
<form action="Authenticate" method="post">
<label for="username">Username:</label>
<input type="text" id="username" name="username"
required><br>
<label for="password">Password">Password:</label>
<input type="password" id="password" name="password"
required><br>
<br/>
<br/>
<br/>
<br/>
<br/>
<br/>
<br/>
</form>
</body>
</html>
```

## AuthenticateServlet.java

```
package in.ga.backend;
import java.io.*;
import java.sql.*;
```

```
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.*;
@WebServlet("/Authenticate")
public class AuthenticateServlet extends HttpServlet {
  private static final long serialVersionUID = 1L;
  protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    String username = request.getParameter("username");
    String password = request.getParameter("password");
    boolean is Authenticated = false;
    try {
       Class.forName("com.mysql.cj.jdbc.Driver");
       Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/servlets",
"root", "Gaurav@123");
```

```
String sql = "SELECT * FROM users WHERE username = ?
AND password = ?";
       PreparedStatement pstmt = conn.prepareStatement(sql);
       pstmt.setString(1, username);
       pstmt.setString(2, password);
       ResultSet rs = pstmt.executeQuery();
       isAuthenticated = rs.next();
       conn.close();
     } catch (Exception e) {
       e.printStackTrace();
     }
    if (isAuthenticated) {
       out.println("<h1>Welcome, " + username + "!</h1>");
    } else {
       out.println("<h1>Invalid username or password!</h1>");
     }
    out.println("<h2>Request Headers:</h2>");
request.getHeaderNames().asIterator().forEachRemaining(headerNam
e -> {
```

```
out.println(headerName + ": " +
request.getHeader(headerName) + "<br/>br>");
});

response.addHeader("Custom-Header", "This is gaurav and i am
your header");
out.println("<h2>Response Headers:</h2>");
response.getHeaderNames().forEach(headerName -> {
    out.println(headerName + ": " +
response.getHeader(headerName) + "<br/>br>");
});
out.close();
}
```