**Phase 2:Practice Project: Assissted Practice: 2**

**1. Demonstrate a project to set up JDBC environment.**

**Source Code:**

**Index.html:**

<!DOCTYPEhtml>

<html>

<head>

<metacharset=*"UTF-8"*>

<title>JDBC Setup</title>

</head>

<body>

<h1>JDBC Environment Setup</h1>

<ahref=*"DemoJDBC"*>Initialize JDBC</a>

</body>

</html>

**DemoJDBC:**

**import**java.io.IOException;

**import**java.io.InputStream;

**import**java.io.PrintWriter;

**import**java.sql.SQLException;

**import**java.util.Properties;

**import**javax.servlet.ServletException;

**import**javax.servlet.annotation.WebServlet;

**import**javax.servlet.http.HttpServlet;

**import**javax.servlet.http.HttpServletRequest;

**import**javax.servlet.http.HttpServletResponse;

**import**com.ecommerce.DBConnection;

@WebServlet("/DemoJDBC")

**publicclass**DemoJDBC**extends**HttpServlet {

**privatestaticfinallong*serialVersionUID*** = 1L;

**public**DemoJDBC() {

**super**();

}

**protectedvoid**doGet(HttpServletRequestrequest, HttpServletResponseresponse)

**throws**ServletException, IOException {

**try** {

PrintWriterout = response.getWriter();

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

InputStreamin = getServletContext().getResourceAsStream("/WEB-INF/config.properties");

Properties props = **new**Properties();

props.load(in);

DBConnectionconn = **new**DBConnection(props.getProperty("url"), props.getProperty("userid"),

props.getProperty("password"));

out.println("DB Connection initialized.<br>");

conn.closeConnection();

out.println("DB Connection closed.<br>");

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

conn.closeConnection();

} **catch** (ClassNotFoundExceptione) {

e.printStackTrace();

} **catch** (SQLExceptione) {

e.printStackTrace();

}

}

**protectedvoid**doPost(HttpServletRequestrequest, HttpServletResponseresponse)

**throws**ServletException, IOException {

doGet(request, response);

}

}

**DBConnection:**

**package**com.ecommerce;

**import**java.sql.Connection;

**import**java.sql.DriverManager;

**import**java.sql.SQLException;

**publicclass**DBConnection {

**private** Connection connection;

**public**DBConnection(String dbURL, String user, String pwd) **throws**ClassNotFoundException, SQLException {

Class.*forName*("com.mysql.cj.jdbc.Driver");

**this**.connection = DriverManager.*getConnection*(dbURL, user, pwd);

}

**public** Connection getConnection() {

**returnthis**.connection;

}

**publicvoid**closeConnection() **throws**SQLException {

**if** (**this**.connection != **null**)

**this**.connection.close();

}

}

**config.properties:**

url=jdbc:mysql://localhost:3306/ecommerce

userid=student

password=student

**Output:**



