4. Demonstrate stored procedures and exception handling in JDBC.

Index.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="/SO-8859-1">
<title>JDBC Statements and Resultsets</title>
</head>
<body>
<a href="DemoJDBC">Product Info</a><br>
</body>
</html>
```

Servlet code

```
package Abc;
```

```
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter:
import java.math.BigDecimal;
import java.sql.CallableStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
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;
@WebServlet("/DemoJDBC")
public class <a href="DemoJDBC">DemoJDBC</a> extends HttpServlet {
```

```
private static final long serialVersionUID = 1L;
```

```
protected void doGet(HttpServletRequest request, HttpServletResponse
response)
       throws ServletException, IOException {
     try {
       PrintWriter out = response.getWriter();
       out.println("<html><body>");
       InputStream in = getServletContext().getResourceAsStream("/
WEB-INF/config.properties");
       Properties props = new Properties();
       props.load(in);
       DBconnection conn = new DBconnection(props.getProperty("url"),
            props.getProperty("userid"), props.getProperty("password"));
       CallableStatement stmt = conn.getConnection().prepareCall("{call
add product(?, ?)}");
       stmt.setString(1, "new product");
       stmt.setBigDecimal(2, new BigDecimal(1900.50));
       stmt.executeUpdate():
       out.println("Stored procedure has been executed.<Br>");
       stmt.close();
       out.println("</body></html>");
       conn.closeConnection();
    } catch (ClassNotFoundException e) {
       e.printStackTrace();
    } catch (SQLException e) {
       e.printStackTrace();
  }
}
```

Database connection

```
package Abc;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class DBconnection {
  private Connection connection;
  public DBconnection(String dbURL, String user, String pwd) throws
ClassNotFoundException, SQLException {
    Class.forName("com.mysql.jdbc.Driver");
    this.connection = DriverManager.getConnection(dbURL, user, pwd);
  }
  public Connection getConnection() {
     return this.connection;
  }
  public void closeConnection() throws SQLException {
    if (this.connection != null)
       this.connection.close();
}
```

← → C localhost:8080/Procedure

Product Info



