A two-tier web app that accepts a product ID and fetches the information based on the product ID from a database.

Html form that accepts input from a user:

```
<!DOCTYPE HTML>
<html>
<head>
<title>Assignment #1 - Two-Tier Web DB Apps</title>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>
    <form name="productForm" action="Product.jsp" method="POST">
        <table>
            <tbody>
                <tr>
                    <td>Enter Product ID:</td>
                    <td><input type="text" name="product_id" value="" size=25></td>
                </tr>
            </tbody>
        </table>

        <input type="reset" value="Clear" id="clear"> <input
            type="submit" value="Submit" id="submit">
    </form>
</body>
</html>
```

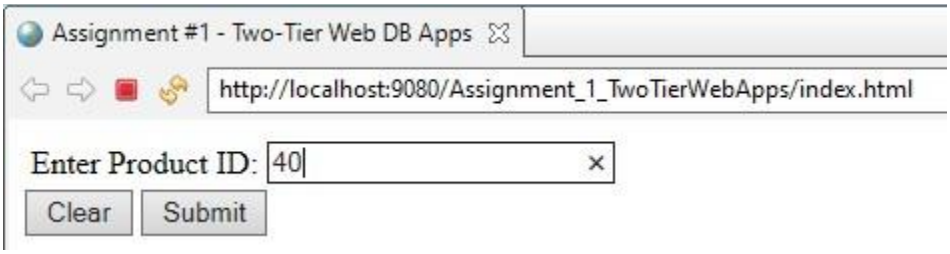
Code for the .jsp file that will connect to the database and return a query result based on the user's input and displays result in an html table:

```
<%@page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*"%>
<html>
<head>
<title>MySql JSP Demo</title>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>
    <%
        String dbUrl = "jdbc:mysql://localhost:3306/northwind?useSSL=false";
        String username = "root";
        String password = "";
        Connection connection;
        try {
            // try to load the JDBC MySQL driver
            Class.forName("com.mysql.jdbc.Driver");
            out.print("Trying to connect to " + dbUrl + "<br /><br />");
            //try to connect to database using the above Strings
            connection = DriverManager.getConnection(dbUrl, username, password);
            out.print("Connected to DB successfully <br /><br />");
        } catch (Exception e) {
            out.print("Could not connect to target DB<br /><br />" + e.toString());
        }

        connection = DriverManager.getConnection(dbUrl, username, password);
        Statement stmt = connection.createStatement();

        String sql = "SELECT id, product_name, list_price FROM products WHERE id = "
                + request.getParameter("product_id");
        ResultSet rs = stmt.executeQuery(sql);

        while (rs.next()) {
            String id = rs.getString("id");
            String productName = rs.getString("product_name");
            String list_price = rs.getString("list_price");
    %>
```

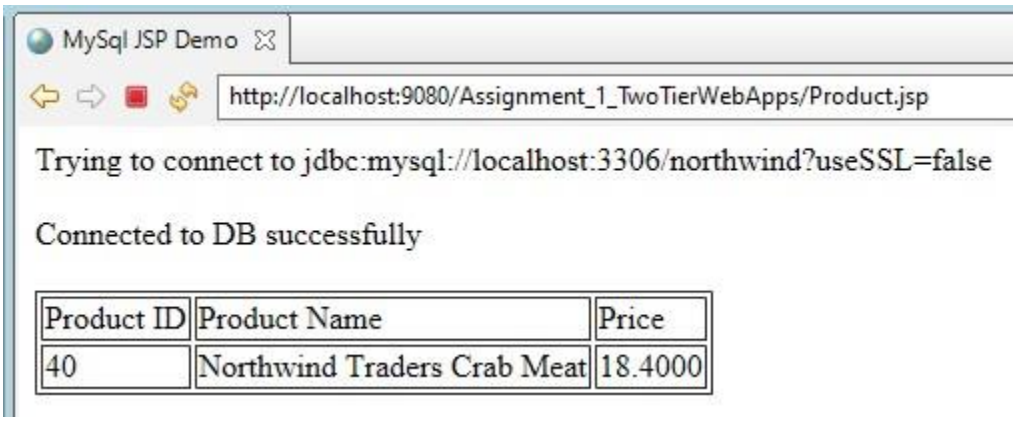
```
43      <table border="1">
44          <tbody>
45              <tr>
46                  <td>Product ID</td>
47                  <td>Product Name</td>
48                  <td>Price</td>
49              </tr>
50              <tr>
51                  <td><%=id%></td>
52                  <td><%=productName%></td>
53                  <td><%=list_price%></td>
54              </tr>
55              <%
56                  }
57              %>
58          </tbody>
59      </table>
60      <%
61          rs.close();
62          stmt.close();
63          connection.close();
64      %>
65  </body>
66  </html>
67
```

Input/Output of a application running:

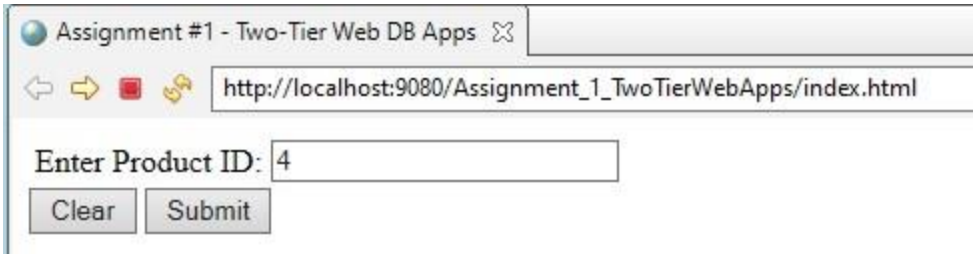
Input:



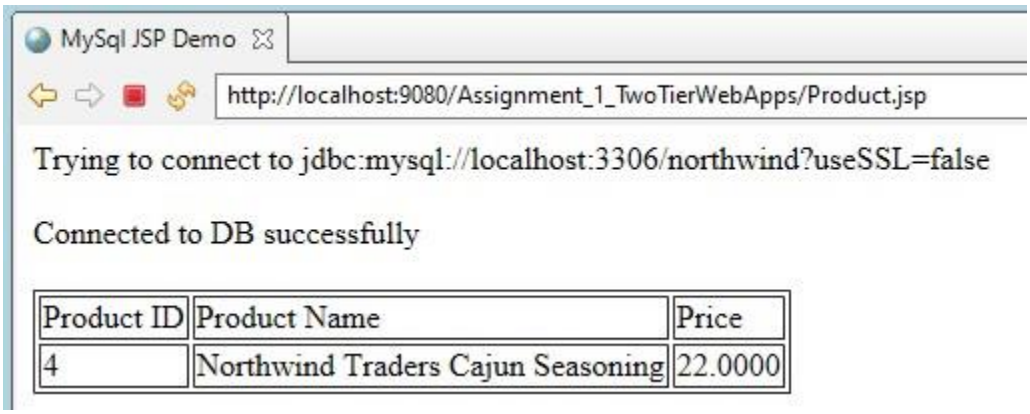
Output:



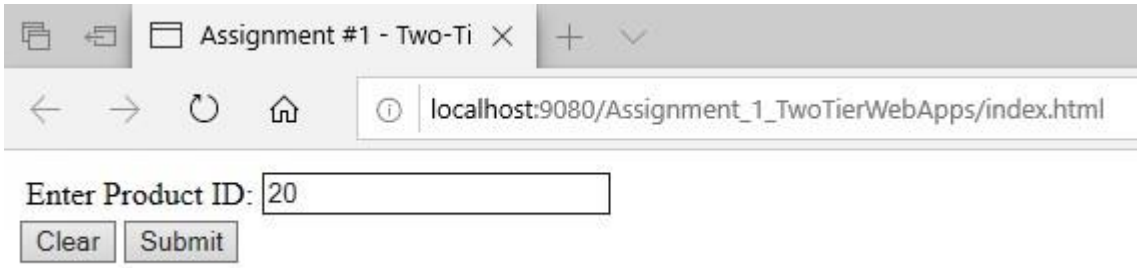
Input:



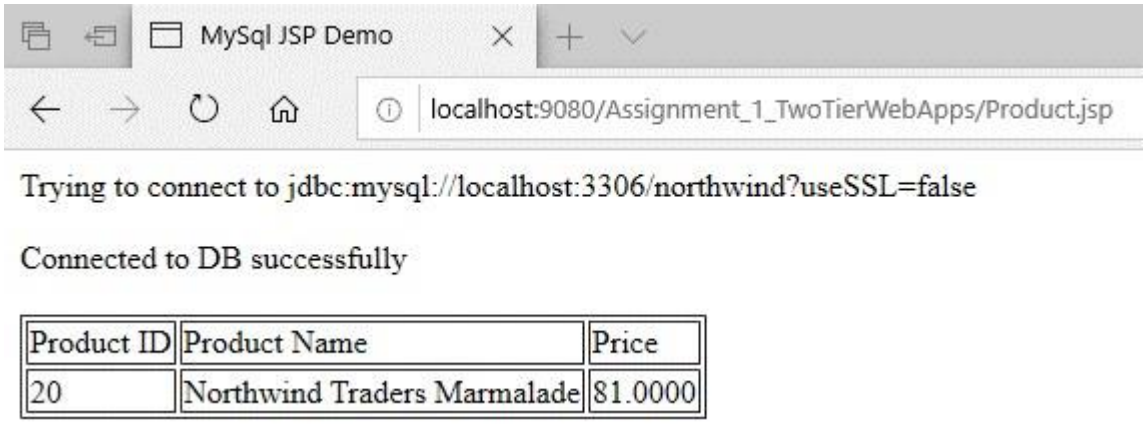
Output:



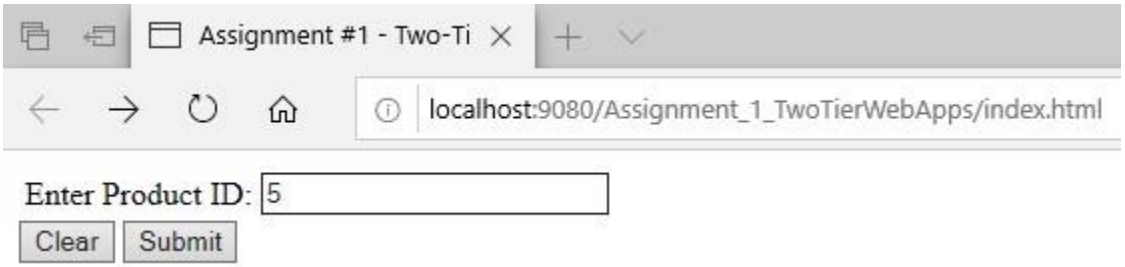
Input from IE:



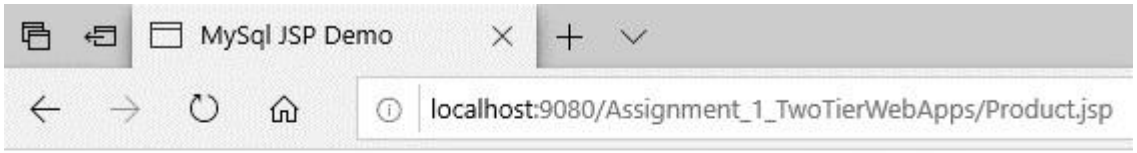
Output from IE:



Input from IE:



Output from IE:



Trying to connect to jdbc:mysql://localhost:3306/northwind?useSSL=false

Connected to DB successfully

Product ID	Product Name	Price
5	Northwind Traders Olive Oil	21.3500