6.Demonstrate Insertion, Updation, and Deletion of Database Records using JDBC.

DBConnection:

```java
package com.ecommerce;


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();
    }
}
```

Product detail:
```java
package com.ecommerce;
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 jakarta.servlet.ServletException;
```

```java
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;




/**
 * Servlet implementation class ProductDetails
 */
@WebServlet("/ProductDetails")
public class ProductDetails extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
 * @see HttpServlet#HttpServlet()
 */
    public ProductDetails() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        // TODO Auto-generated method stub

        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"));
            Statement stmt =
conn.getConnection().createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
ResultSet.CONCUR_READ_ONLY);
            stmt.executeUpdate("insert into eproduct (name, price, date_added) values
('New Product', 17800.00, now())");
            out.println("Executed an insert operation<br>");
```

```java
                stmt.executeUpdate("update eproduct set price=2000 where name = 'New
Product'");
                out.println("Executed an update operation<br>");

                stmt.executeUpdate("delete from eproduct where name = 'New Product'");
                out.println("Executed a delete operation<br>");

                stmt.close();

                conn.closeConnection();


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

        } catch (ClassNotFoundException e) {
                e.printStackTrace();
        } catch (SQLException e) {
                e.printStackTrace();
        }
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }

}
```

Class path:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<classpath>
        <classpathentry kind="src" path="src/main/java"/>
        <classpathentry kind="con"
path="org.eclipse.jdt.launching.JRE_CONTAINER/org.eclipse.jdt.internal.debug.ui.launcher.
StandardVMType/JavaSE-17">
                <attributes>
                        <attribute name="module" value="true"/>
                </attributes>
        </classpathentry>
```

```xml
        <classpathentry kind="con"
path="org.eclipse.jst.server.core.container/org.eclipse.jst.server.tomcat.runtimeTarget/Apach
e Tomcat v10.1">
                <attributes>
                        <attribute name="owner.project.facets" value="jst.web"/>
                </attributes>
        </classpathentry>
        <classpathentry kind="con" path="org.eclipse.jst.j2ee.internal.web.container"/>
        <classpathentry kind="con" path="org.eclipse.jst.j2ee.internal.module.container"/>
        <classpathentry kind="lib" path="D:/mysql-connector-j-8.0.33.jar"/>
        <classpathentry kind="output" path="build/classes"/>
</classpath>
```

Prod decsr:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<projectDescription>
        <name>JDBCSetup_Insertion</name>
        <comment></comment>
        <projects>
        </projects>
        <buildSpec>
                <buildCommand>
                        <name>org.eclipse.jdt.core.javabuilder</name>
                        <arguments>
                        </arguments>
                </buildCommand>
                <buildCommand>
                        <name>org.eclipse.wst.common.project.facet.core.builder</name>
                        <arguments>
                        </arguments>
                </buildCommand>
                <buildCommand>
                        <name>org.eclipse.wst.validation.validationbuilder</name>
                        <arguments>
                        </arguments>
                </buildCommand>
        </buildSpec>
        <natures>
                <nature>org.eclipse.jem.workbench.JavaEMFNature</nature>
                <nature>org.eclipse.wst.common.modulecore.ModuleCoreNature</nature>
                <nature>org.eclipse.wst.common.project.facet.core.nature</nature>
                <nature>org.eclipse.jdt.core.javanature</nature>
                <nature>org.eclipse.wst.jsdt.core.jsNature</nature>
        </natures>
</projectDescription>
```