2.Demonstrate a project to set up JDBC environment.(Unassisted Practice) DBconnection: 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(); } } DemoJDBC: 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;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
/**
* Servlet implementation class DemoJDBC
@WebServlet("/DemoJDBC")
public class DemoJDBC extends HttpServlet {
    private static final long serialVersionUID = 1L;
  /**
* @see HttpServlet#HttpServlet()
  public DemoJDBC() {
    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"));
              out.println("DB Connection initialized.<br>");
              conn.closeConnection();
              out.println("DB Connection closed.<br>");
```

```
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);
    }
}
Classpath:
<?xml version="1.0" encoding="UTF-8"?>
<classpath>
       <classpathentry kind="src" path="src/main/java"/>
       <classpathentry kind="con"</pre>
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>
       <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>
```

Proj.descr:

```
<?xml version="1.0" encoding="UTF-8"?>
opectDescription>
      <name>JDBCSetup</name>
      <comment></comment>
      cts>
      </projects>
      <bul><buildSpec>
             <buildCommand>
                    <name>org.eclipse.jdt.core.javabuilder</name>
                    <arguments>
                    </arguments>
             </buildCommand>
             <bul><buildCommand>
                    <name>org.eclipse.wst.common.project.facet.core.builder</name>
                    <arguments>
                    </arguments>
             </buildCommand>
             <bul><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>
```

Output:



Activate Windows

Go to Settings to activate Windows.

