5.Demonstrate how to create, select, and drop a database in JDBC.

```
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();
    }
}
DBOperation:
package com.ecommerce;
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
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 DBOperations
@WebServlet("/DBOperations")
public class DBOperations extends HttpServlet {
    private static final long serialVersionUID = 1L;
  /**
* @see HttpServlet#HttpServlet()
  public DBOperations() {
    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();
              stmt.executeUpdate("create database mydatabase");
              out.println("Created database: mydatabase<br>");
              stmt.executeUpdate("use mydatabase");
              out.println("Selected database: mydatabase<br>");
              stmt.executeUpdate("drop database mydatabase");
              stmt.close();
              out.println("Dropped database: mydatabase<br>");
```

```
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);
    }
}
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"</pre>
path \verb|="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 desc:
<?xml version="1.0" encoding="UTF-8"?>
opectDescription>
       <name>JDBCSetup_Create</name>
       <comment></comment>
       cts>
      </projects>
       <bul><buildSpec>
             <bul><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:

