

## ASSIGNMENT –3

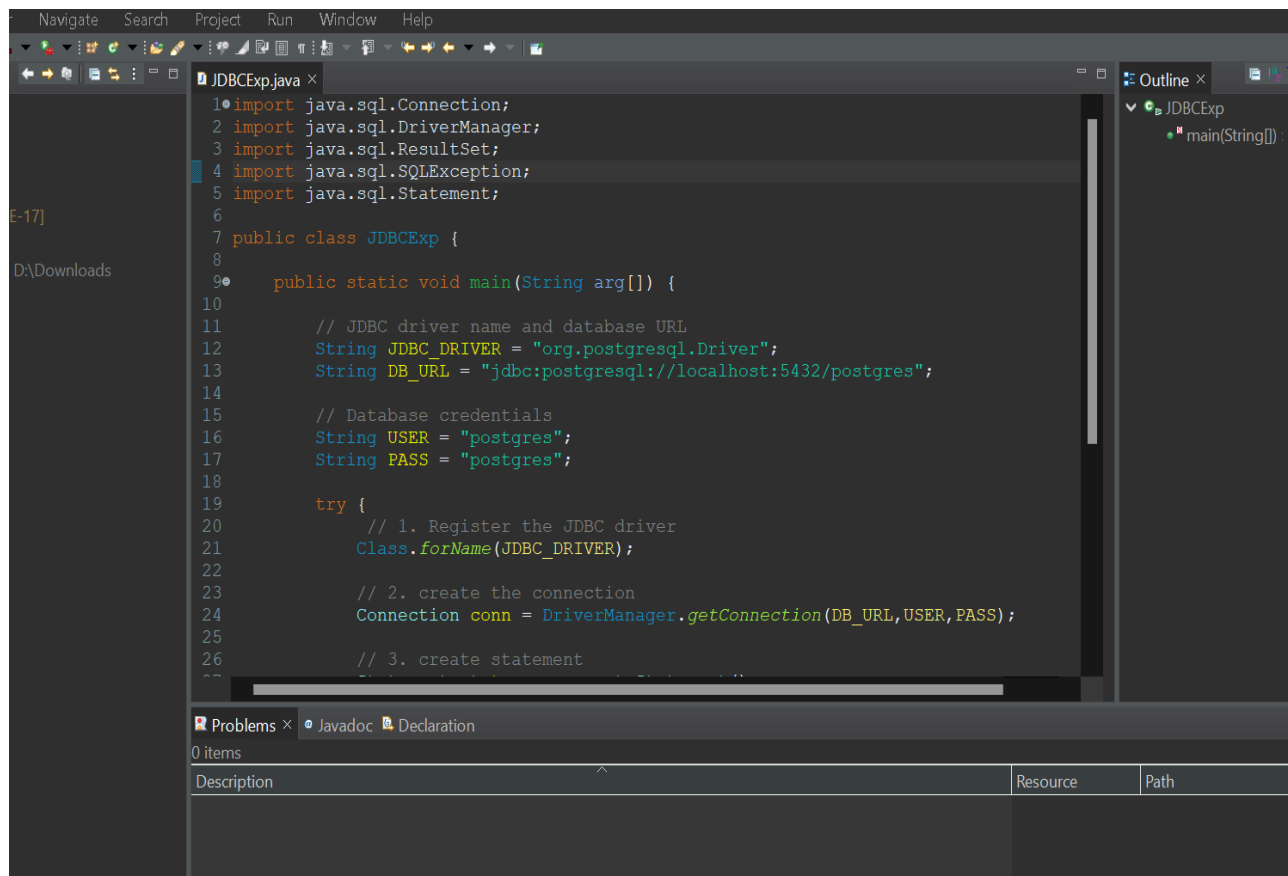
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### JDBC USING JAVA : ALL THE 5 STEPS INCLUDED

HERE I HAVE USED PGAdmin FOR EXECUTING THE SQL QUERY, SO THE jar IS OF PGADMIN

#### STEPS:

1. REGISTER THE DRIVER
2. ESTABLISH THE CONNECTION
3. CREATE THE STATEMENT
4. EXECUTE THE QUERY
5. CLOSE THE CONNECTION



The screenshot shows an IDE with a Java file named `JDBCExp.java`. The code implements the five steps for establishing a JDBC connection to a PostgreSQL database. The `main` method includes comments for each step: 1. Register the JDBC driver, 2. create the connection, and 3. create statement. The code uses the following variables: `JDBC_DRIVER` is `"org.postgresql.Driver"`, `DB_URL` is `"jdbc:postgresql://localhost:5432/postgres"`, `USER` is `"postgres"`, and `PASS` is `"postgres"`. The `try` block contains the logic for steps 1, 2, and 3. The `Problems` panel at the bottom shows 0 items.

```
1 import java.sql.Connection;
2 import java.sql.DriverManager;
3 import java.sql.ResultSet;
4 import java.sql.SQLException;
5 import java.sql.Statement;
6
7 public class JDBCExp {
8
9     public static void main(String arg[]) {
10
11         // JDBC driver name and database URL
12         String JDBC_DRIVER = "org.postgresql.Driver";
13         String DB_URL = "jdbc:postgresql://localhost:5432/postgres";
14
15         // Database credentials
16         String USER = "postgres";
17         String PASS = "postgres";
18
19         try {
20             // 1. Register the JDBC driver
21             Class.forName(JDBC_DRIVER);
22
23             // 2. create the connection
24             Connection conn = DriverManager.getConnection(DB_URL,USER,PASS);
25
26             // 3. create statement
27             Statement stmt = conn.createStatement();
28
29             // 4. execute the query
30             String query = "SELECT * FROM STUDENT";
31             ResultSet rs = stmt.executeQuery(query);
32
33             // 5. close the connection
34             conn.close();
35
36         } catch (Exception e) {
37             e.printStackTrace();
38         }
39     }
40 }
```



JDBCExp.java ×

```
26      // 3. create statement
27      Statement stmt =conn.createStatement();
28
29      //4. execute query
30      ResultSet rs = stmt.executeQuery("select * from Orders");
31
32      while(rs.next()) {
33          System.out.println(rs.getInt(1)+" "+rs.getInt(2)+" "+rs.getString(
34      )
35      // Close the connection
36      conn.close();
37      }
38      catch (ClassNotFoundException | SQLException e) {
39          e.printStackTrace();
40      }
41  }
42 }
43
```

Problems Javadoc Declaration Console ×

<terminated> JDBCExp [Java Application] C:\Users\91944\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.

```
1 1 Product A 2
2 2 Product B 1
3 1 Product C 3
```