

Week 10 : Programming Assignment 1

Due on 2025-04-03, 23:59 IST

Import the Right Packages

Write a Java program that connects to a database using JDBC (Java Database Connectivity). However, the code will not compile unless you import the correct packages. Your task is to add the correct `import` statements so that the program compiles and runs properly.

Even if you have never worked with JDBC, this is a basic puzzle-style task. Simply use your understanding of Java import statements and hints in the code to figure out what to include at the top.

 Hint: JDBC is part of `java.sql`, and you might need `java.lang` too (which is imported automatically, but keep it for good practice).

| Private Test cases used for evaluation | Input | Expected Output | Actual Output | Status |
|--|-------|-----------------|---------------|--------|
| Test Case 1 | | true | true | Passed |

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2025-03-26, 22:31 IST

Your last recorded submission was :

```
1 import java.sql.*;
2 import java.lang.*;
3 public class W10_P1 {
4     public static void main(String args[]) {
5         try {
6             Connection conn = null;
7             String DB_URL = "jdbc:sqlite:/tmpfs/db";
8             System.setProperty("org.sqlite.tmpdir", "/tmpfs");
9
10            // Try to connect to the database
11            conn = DriverManager.getConnection(DB_URL);
12            System.out.print(conn.isValid(1));
13
14            conn.close();
15        } catch (Exception e) {
16            System.out.println(e);
17        }
18    }
19 }
```

Sample solutions (Provided by instructor)

```
1 // Add the required import statements below
2
3 // This import is used to work with databases in Java.
4 // 'Connection' is a class that helps you create a connection between your Java program and the database.
5 import java.sql.Connection;
6
7 // 'DriverManager' is a class that manages a set of database drivers.
8 // It is used to establish a connection with the database using a URL, username, and password.
9 import java.sql.DriverManager;
10
11 // The following import is technically not needed because 'java.lang' is automatically imported in every Java program.
12 // But if you're curious: it contains core classes like String, Math, Object, System, etc.
13 import java.lang.*; // You can remove this line; it's optional and redundant.
14 public class W10_P1 {
15     public static void main(String args[]) {
16         try {
17             Connection conn = null;
18             String DB_URL = "jdbc:sqlite:/tmpfs/db";
19             System.setProperty("org.sqlite.tmpdir", "/tmpfs");
20
21            // Try to connect to the database
22            conn = DriverManager.getConnection(DB_URL);
23            System.out.print(conn.isValid(1));
24
25            conn.close();
26        } catch (Exception e) {
27            System.out.println(e);
28        }
29    }
30 }
```