

1. org.postgresql.Driver Class exists, shown in left pane. However, ClassNotFoundException during runtime.

The screenshot shows the Eclipse IDE interface. On the left, the Package Explorer displays the project structure, including a 'Referenced Libraries' section where 'org.postgresql-42.2.18.jdbc4.jar' is listed. Underneath, the 'org.postgresql' package is expanded, showing 'Driver.class' as available. On the right, the editor shows a Java file named 'IcabsBuildNumber.java'. The code includes imports for 'java.sql.*', 'java.util.*', and 'org.postgresql.*'. A comment block describes the 'ConnectPostgreSQL' class. The class definition includes a private 'Debug' object and a public 'openConnection' method. The 'openConnection' method contains a 'try' block where 'Class.forName("org.postgresql.Driver");' is called, which is highlighted in cyan. Two green arrows point from the text above to the 'Driver.class' entry in the Package Explorer and the 'Class.forName' call in the code.

```
39 import java.sql.*;
40 import java.util.*;
41 import org.postgresql.*;
42
43
44
45 /**
46  *
47  * ConnectPostgreSQL Class is for connecting to an postgresQL database.
48  *
49  *
50  * @author Olan Knight
51  * @version 1.0.0
52  *
53  */
54
55 public class ConnectPostgreSQL{
56
57     private Debug d = new Debug();
58
59     /**
60      * The OpenConnection public method generates a database connection
61      * object based on the IntecParams object that is passed in. Makes the
62      * assumption that the values for URL, USERNAME, ND PASSWORD have
63      * been set to proper values in the IntecParams object.
64      *
65      *
66      * @param IntecParams uses the instance values for URL, USERNAME, and PASSWORD variable
67      *         String contains the status of the connection attempt
68      *
69      * @return A Connection object.
70      *
71      * @throws SQLException if a database access error occurs.
72      */
73     public Connection openConnection(IntecParams variables) throws SQLException {
74
75         Connection conn = null;
76
77
78         System.out.println("openConnection() function #1 ");
79
80         try {
81             Class.forName("org.postgresql.Driver");
```

The LOG file:

BUILD NUMBER = 0210 (07-JUL-2021)
JAVA VERSION = 1.8.0_231

DATABASE_TYPE = POSTGRESQL
DATABASE_NAME = dev12c
URL = jdbc:postgresql://10.11.22.333:5123/dev12c
USERNAME = myusername
REMOTE_HOST =

>>>> In ProcessCodeData constructor....
In ProcessCodeData.constructor, STOREDETAIL = false, sourceFileUid = 436383, STOREHISTORY = false, inDebugMode = false
openConnection() function #1

```
java.lang.ClassNotFoundException: org.postgresql.Driver
    at java.net.URLClassLoader.findClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at sun.misc.Launcher$AppClassLoader.loadClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at java.lang.Class.forName0(Native Method)
    at java.lang.Class.forName(Unknown Source)
    at com.intec.inteccommon.ConnectPostgreSQL.openConnection(ConnectPostgreSQL.java:81)
    at com.intec.inteccommon.IntecParams.openConnection(IntecParams.java:439)
    at com.intec.codeprocessing.ProcessCodeData.<init>(ProcessCodeData.java:331)
    at com.intec.codeprocessing.PreProcCodeData.<init>(PreProcCodeData.java:145)
    at com.intec.codeprocessing.ProcessCodeFile.run(ProcessCodeFile.java:365)
```

>>>> The database connection failed: null, dev12c

The database connection failed.

Eclipse Buildpath

Properties for javadev7

type filter text

- > Resource Builders
- Java Build Path**
- > Java Code Style
- > Java Compiler
- > Java Editor
- Javadoc Location
- Project References
- Refactoring Histor
- Run/Debug Settings

Java Build Path

Source Projects Libraries Order and Export

JARs and class folders on the build path:

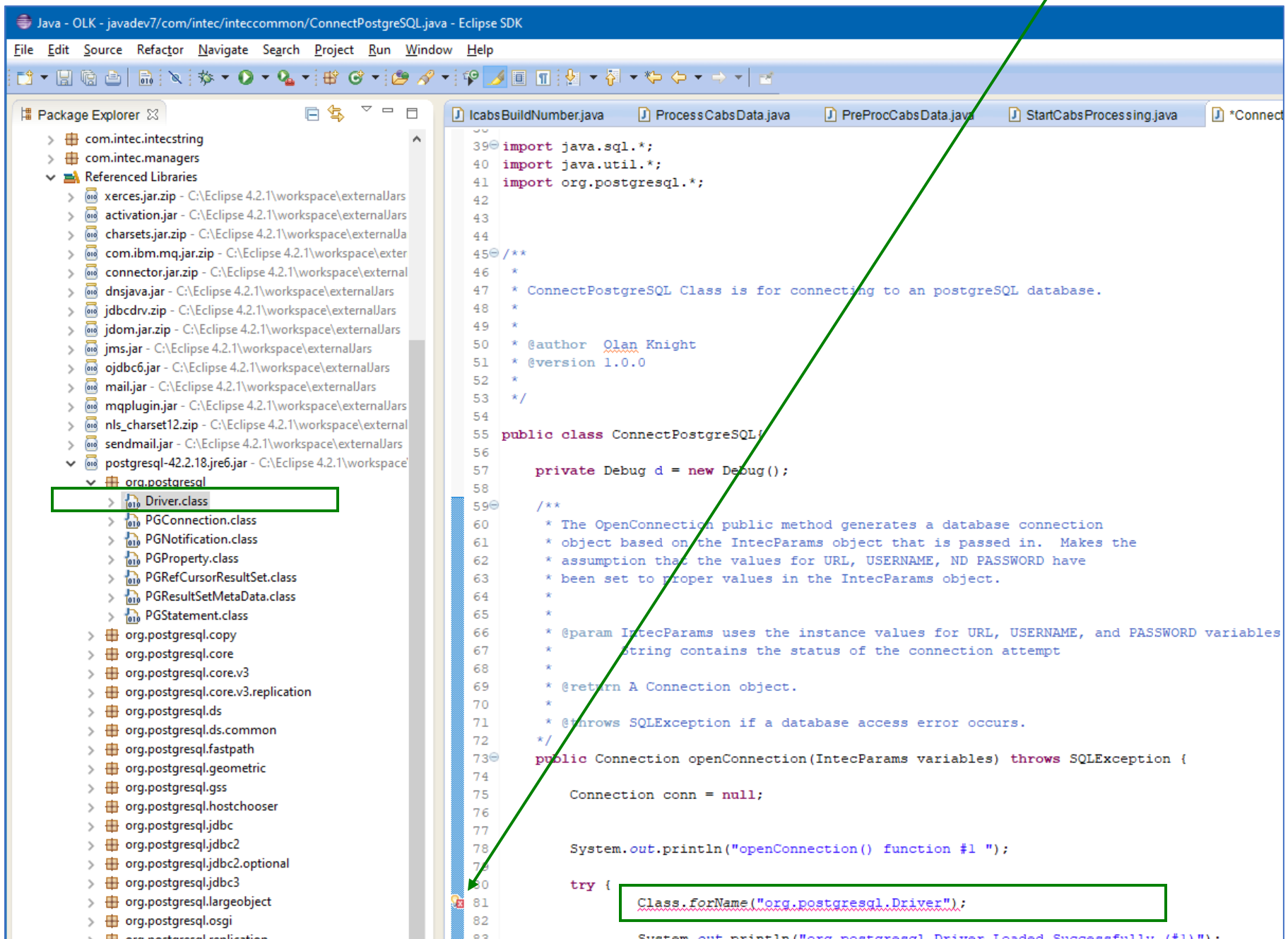
- > activation.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > charsets.jar.zip - C:\Eclipse 4.2.1\workspace\externalJars
- > com.ibm.mq.jar.zip - C:\Eclipse 4.2.1\workspace\externalJar
- > connector.jar.zip - C:\Eclipse 4.2.1\workspace\externalJars
- > dnsjava.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > jdbcdrv.zip - C:\Eclipse 4.2.1\workspace\externalJars
- > jdom.jar.zip - C:\Eclipse 4.2.1\workspace\externalJars
- > jms.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > mail.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > mqplugin.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > nls_charset12.zip - C:\Eclipse 4.2.1\workspace\externalJars
- > ojdbc6.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > **postgresql-42.2.18.jre6.jar - C:\Eclipse 4.2.1\workspace\ex**
- > sendmail.jar - C:\Eclipse 4.2.1\workspace\externalJars
- > xerces.jar.zip - C:\Eclipse 4.2.1\workspace\externalJars
- > JRE System Library [jre1.8.0_231]

Buttons:

- Add JARs...
- Add External JARs...
- Add Variable...
- Add Library...
- Add Class Folder...
- Add External Class Folder...
- Edit...
- Remove
- Migrate JAR File...

Buttons: ? OK Cancel

When the ClassNotFound CATCH block is commented out, the `org.postgresql.Driver` class is not found in the IDE:



Multiple markers at this line

- Unhandled exception type ClassNotFoundException
- Line breakpoint:ConnectPostgreSQL [line: 81] - openConnection(IntecParams)