



JDBC Connector Example



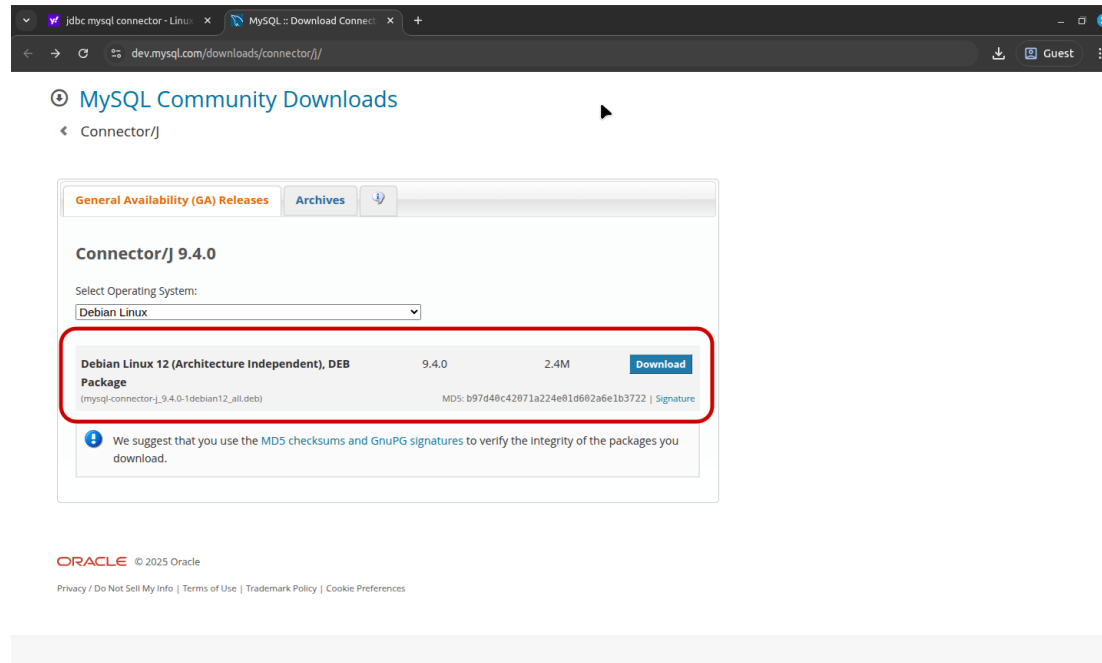
Downloading For Windows

The screenshot shows a web browser window with the URL `dev.mysql.com/downloads/connector/j/`. The page title is "MySQL Community Downloads" and the sub-page is "Connector/J". There are two tabs: "General Availability (GA) Releases" (active) and "Archives". The main heading is "Connector/J 9.4.0". Below this, there is a "Select Operating System:" dropdown menu with "Platform Independent" selected. A table lists two download options for the "Platform Independent (Architecture Independent)" version 9.4.0:

Download Option	Version	Size	Action
Platform Independent (Architecture Independent), Compressed TAR Archive <small>(mysql-connector-j-9.4.0.tar.gz)</small>	9.4.0	4.3M	Download
Platform Independent (Architecture Independent), ZIP Archive <small>(mysql-connector-j-9.4.0.zip)</small>	9.4.0	5.1M	Download

The ZIP Archive row is highlighted with a red box. Below the table, there is a note: "We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download." The footer of the page includes the Oracle logo, "© 2025 Oracle", and links for "Privacy / Do Not Sell My Info", "Terms of Use", "Trademark Policy", and "Cookie Preferences". The Windows taskbar at the bottom shows various application icons and the system clock at 12:13.

Downloading for MintOS Linux



The screenshot shows a web browser window with the URL `dev.mysql.com/downloads/connector/j/`. The page title is "MySQL Community Downloads" and the breadcrumb is "Connector/J". The main content area has tabs for "General Availability (GA) Releases", "Archives", and "Downloads". Under "General Availability (GA) Releases", the version "Connector/J 9.4.0" is displayed. A dropdown menu for "Select Operating System:" is set to "Debian Linux". Below this, a table lists the available packages:

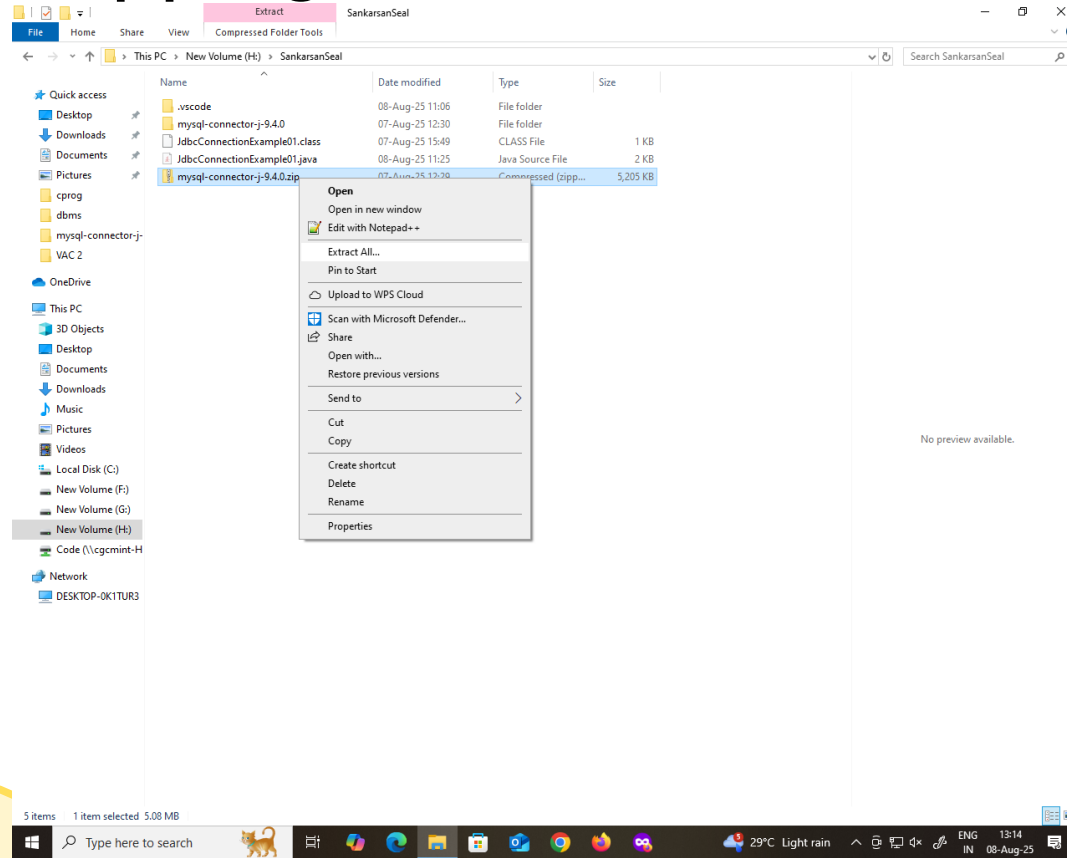
Operating System	Version	Size	Action
Debian Linux 12 (Architecture Independent), DEB Package (mysql-connector-j_9.4.0-1debian12_all.deb)	9.4.0	2.4M	Download

Below the table, a note states: "We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download." The MD5 checksum is `b97d48c42871a224e01d682a6e1b3722` and the signature is available at [Signature](#).

At the bottom of the page, the Oracle logo and copyright information "© 2025 Oracle" are visible, along with links for "Privacy / Do Not Sell My Info", "Terms of Use", "Trademark Policy", and "Cookie Preferences".

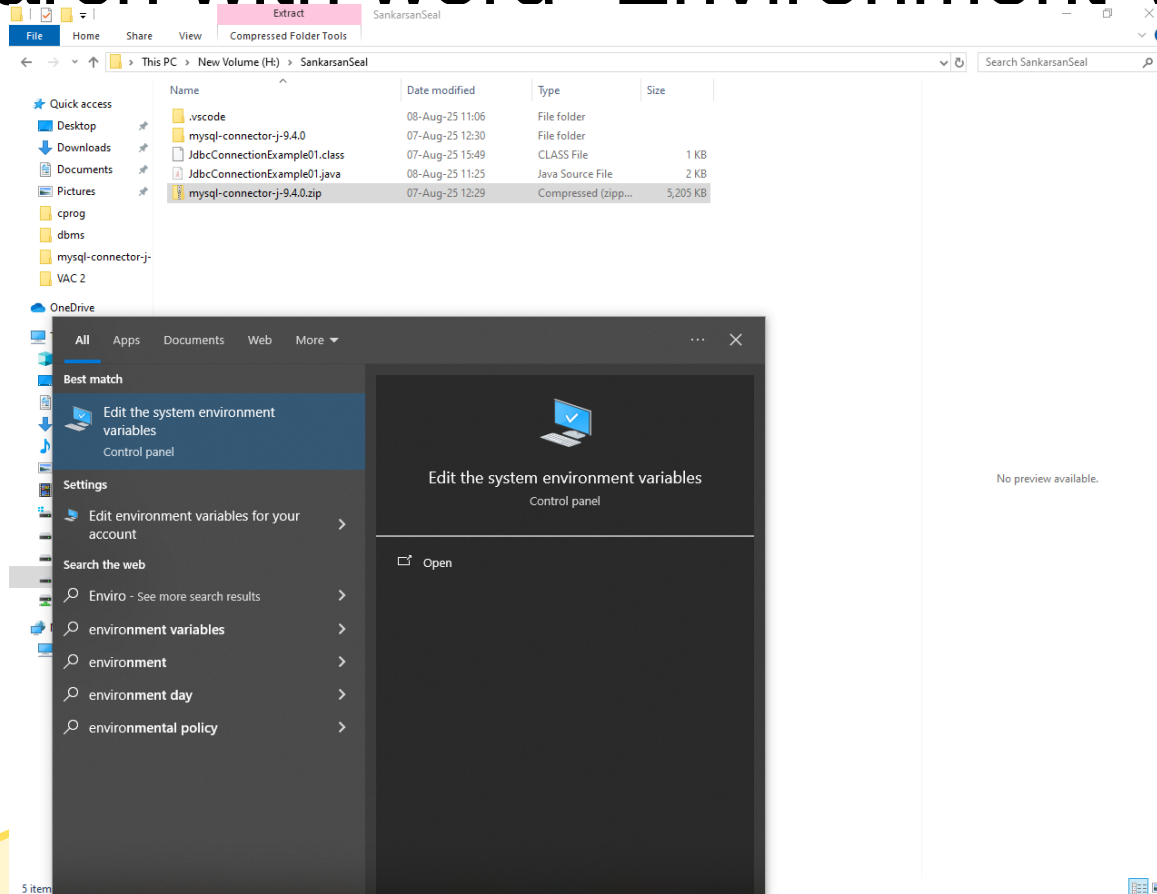
Setting CLASSPATH in Windows

Unzipping the Downloaded Zip File



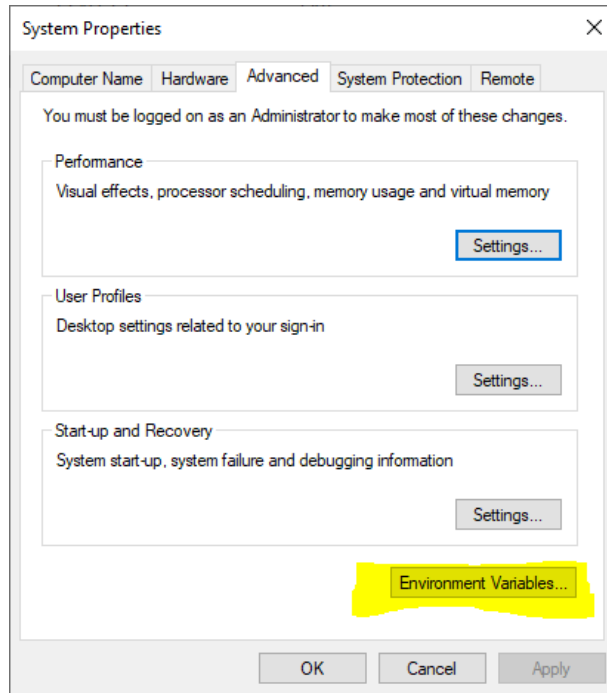
Editing Environment Variables in Windows

Search with word “Environment Variable”

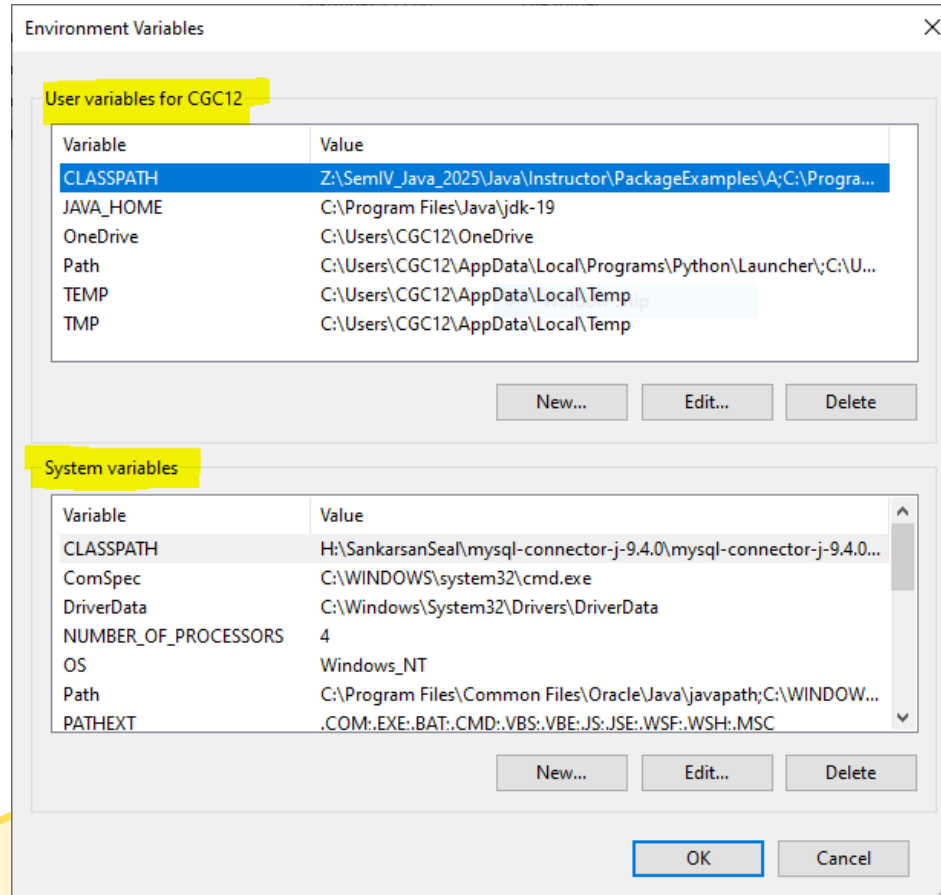


Opening Enviroment Variable Setting Panel

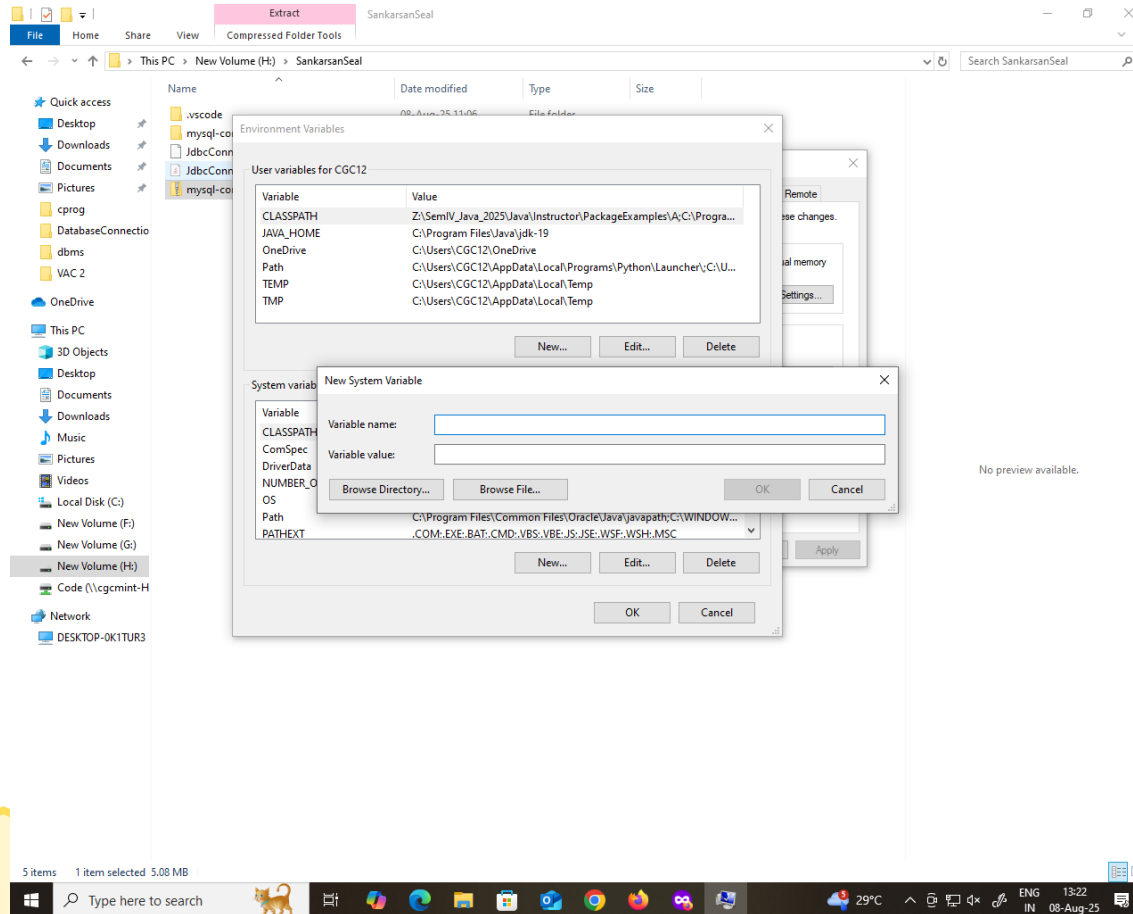
Click “Environment Variable”



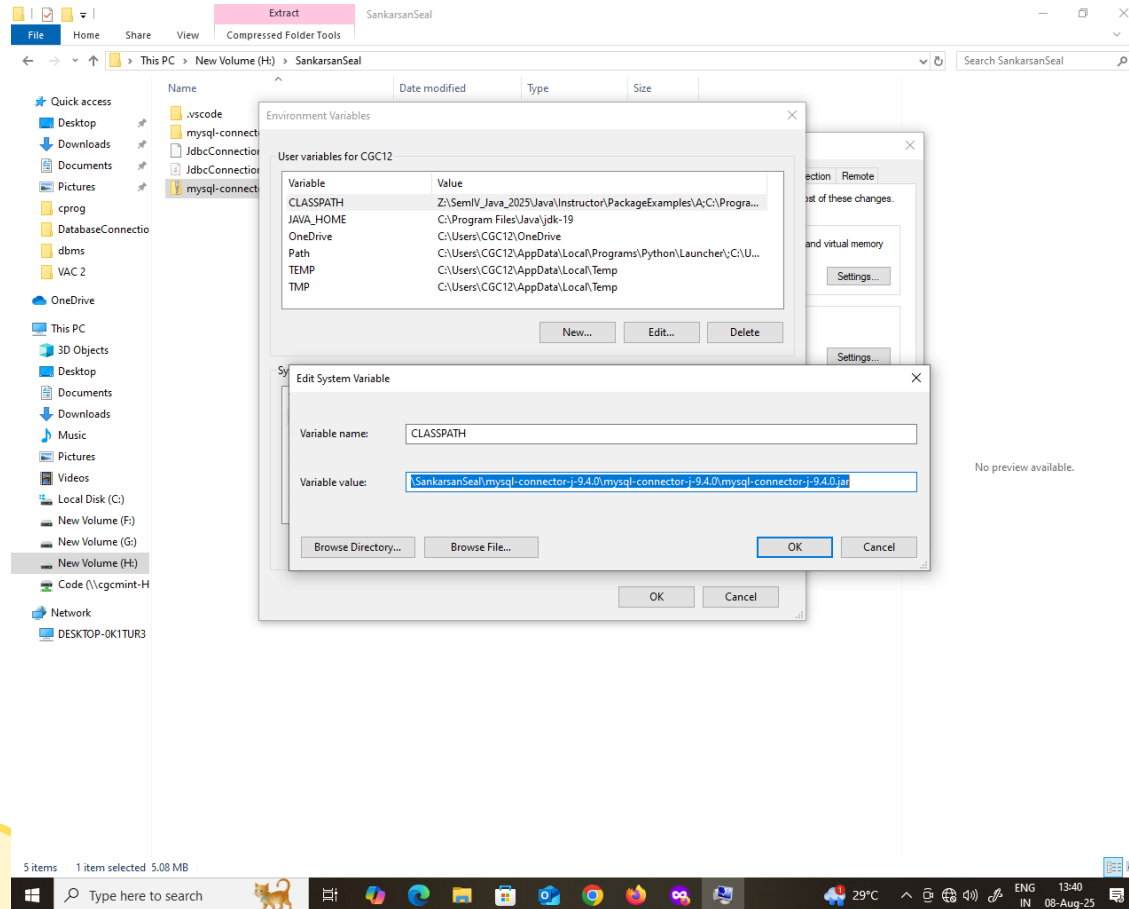
Setting CLASSPATH under “System Variable” Section



Click “New” to add the CLASSPATH

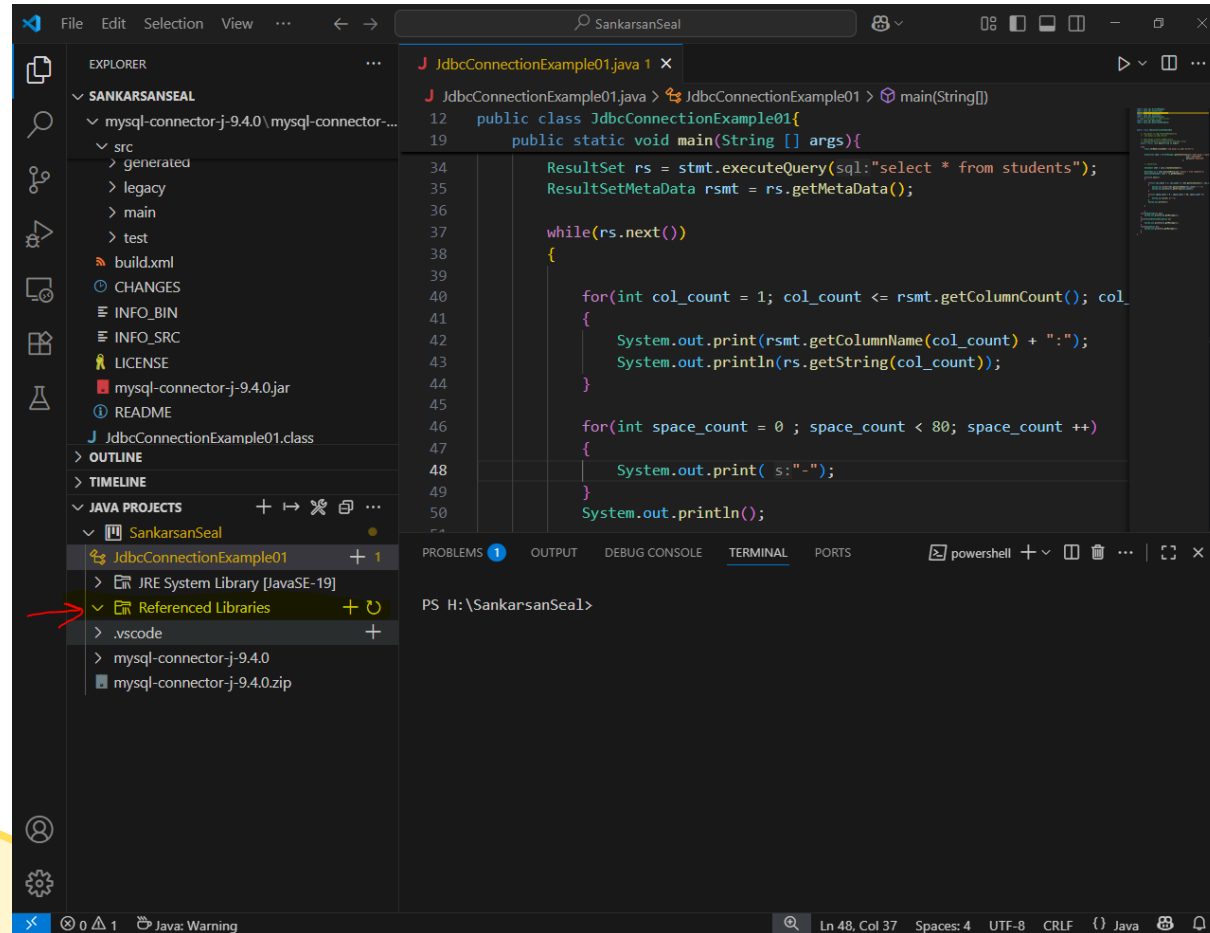


Adding the location to CLASSPATH Variable

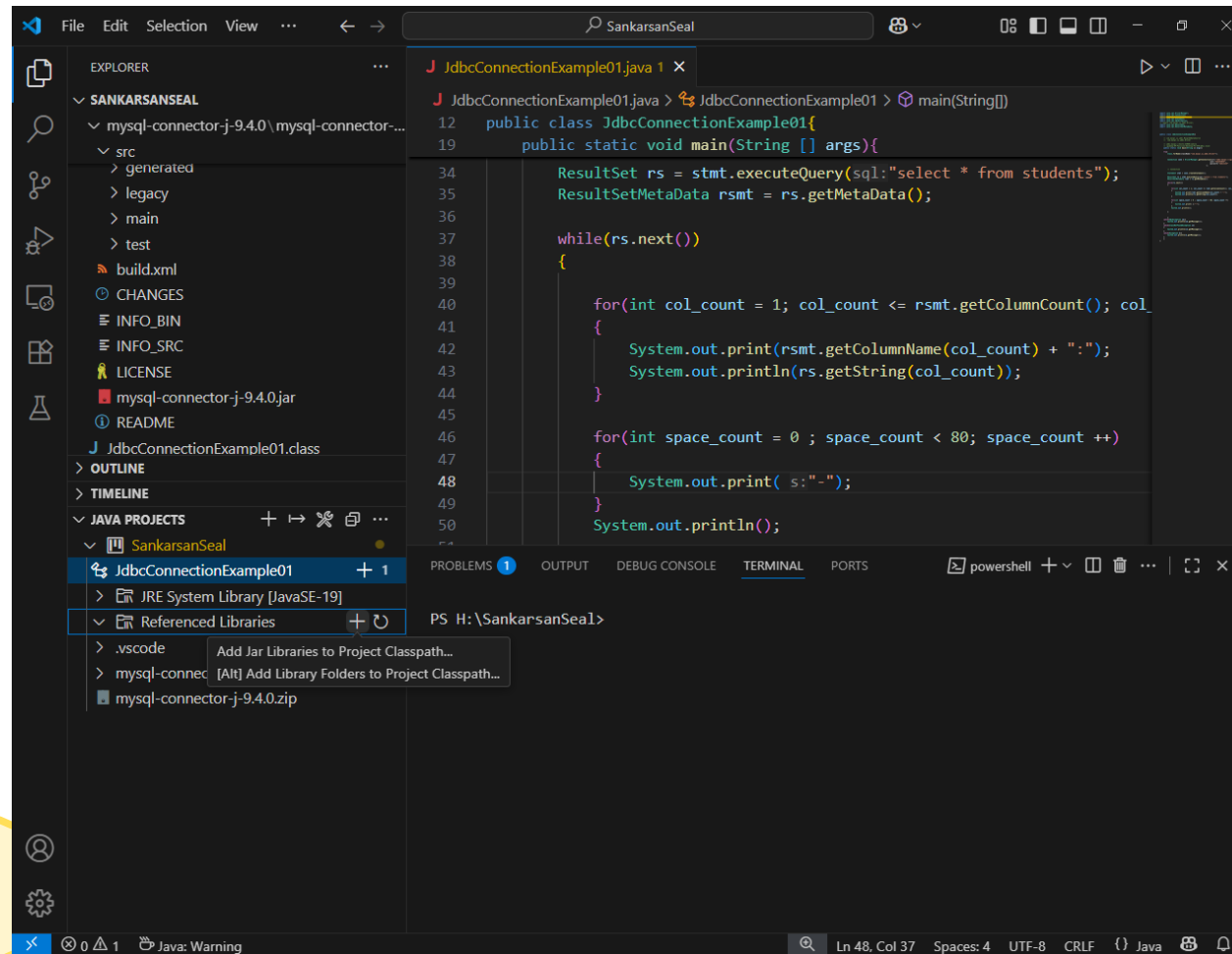


Adding the Jar File in VS Code

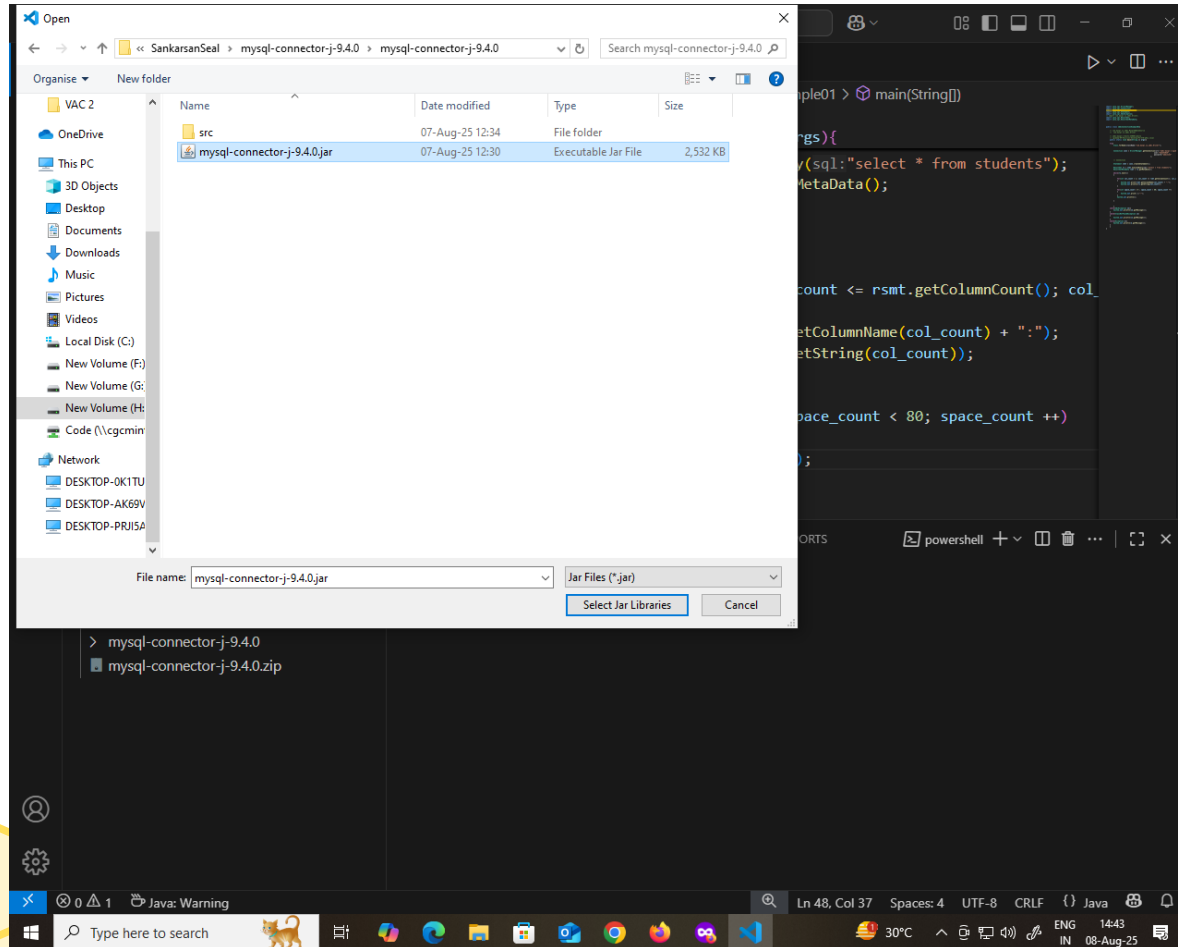
Look for “Referenced Libraries” Under JAVA PROJECT



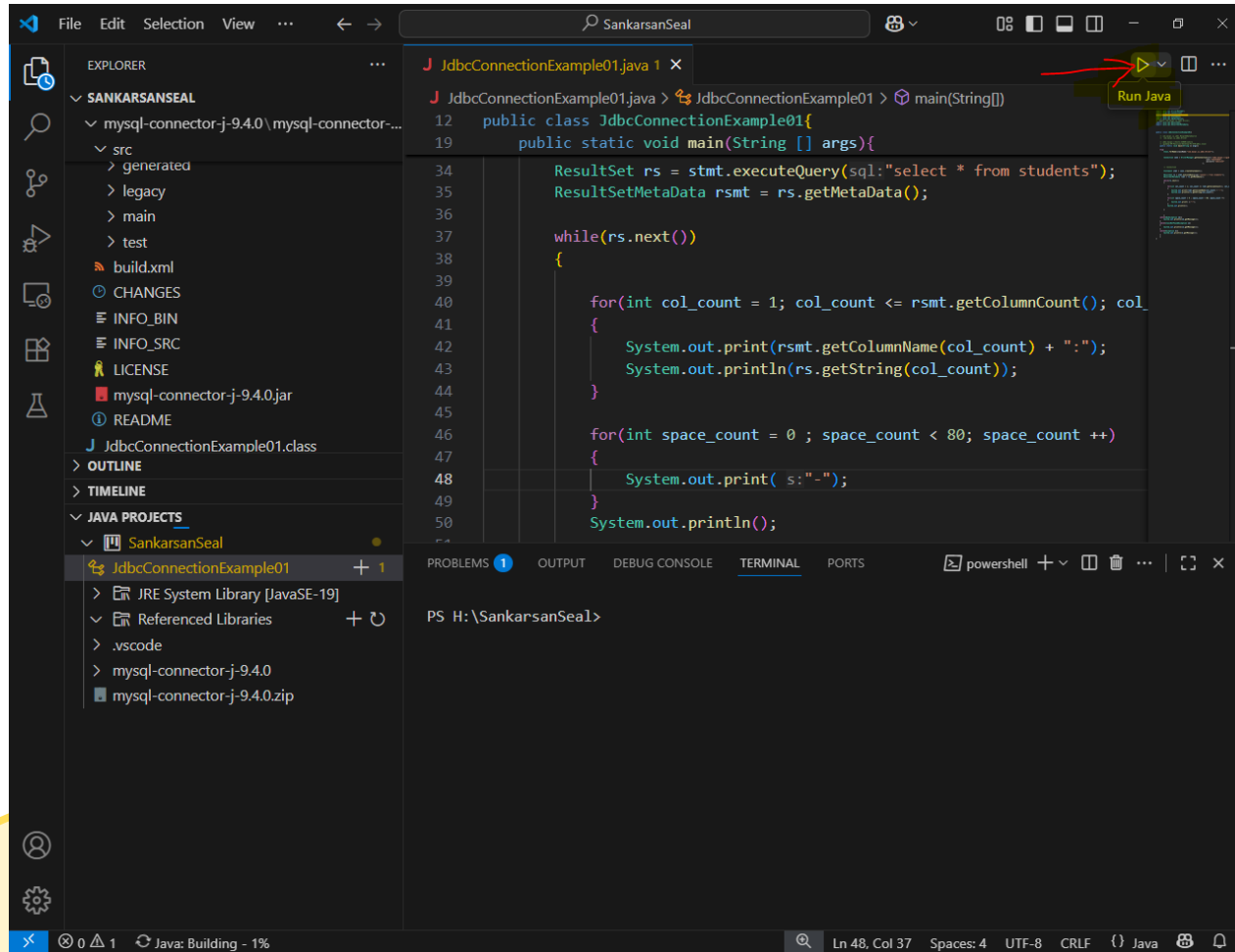
Adding the PATH to “Referenced Libraries”



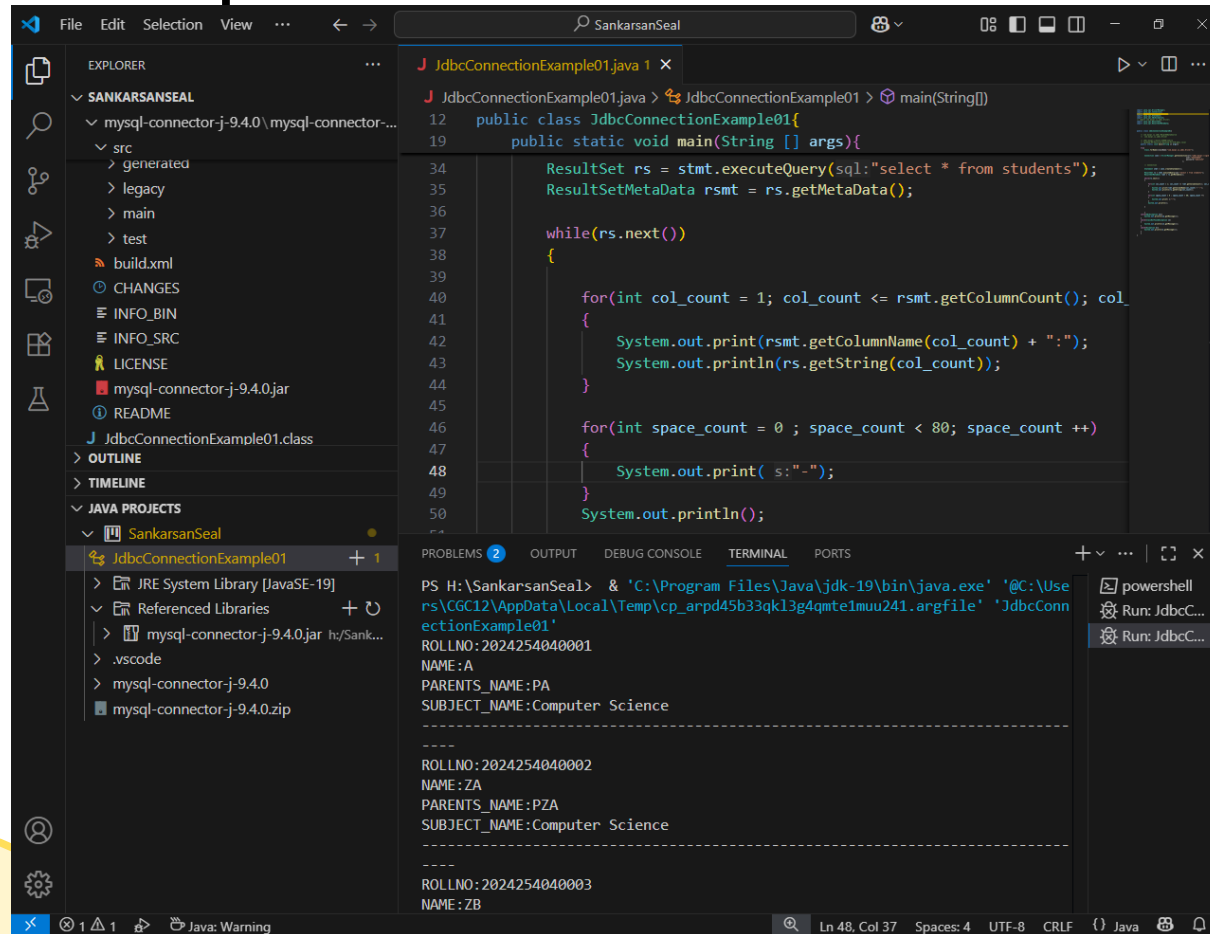
Go to the Location of Jar file



Run the code using “Run Java”



Output of JDBC Connection



The screenshot displays an IDE with the following components:

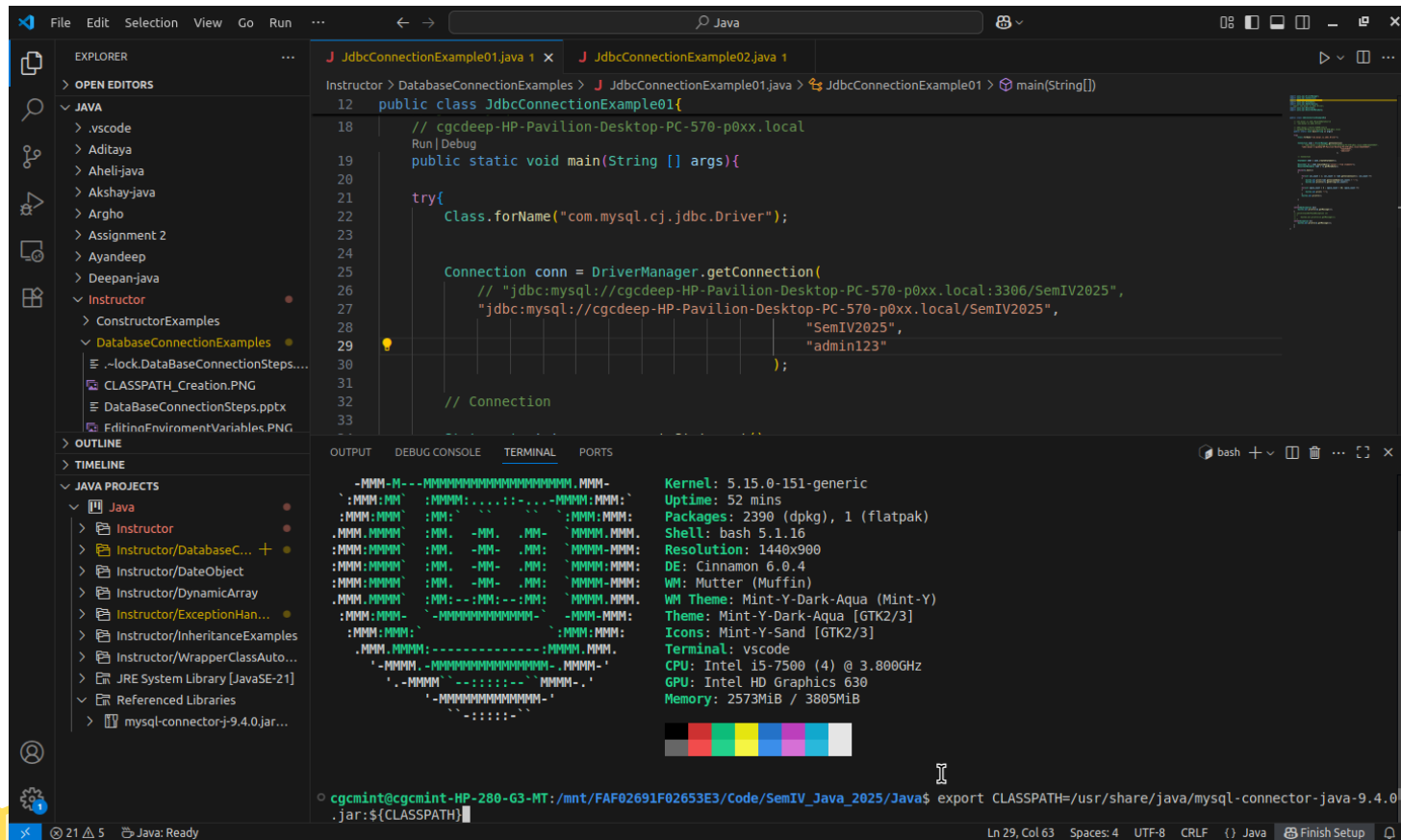
- EXPLORER:** Shows the project structure for 'SANKARSANSEAL', including 'mysql-connector-j-9.4.0', 'src' (with 'generated', 'legacy', 'main', and 'test' subfolders), 'build.xml', 'CHANGES', 'INFO_BIN', 'INFO_SRC', 'LICENSE', 'mysql-connector-j-9.4.0.jar', 'README', and 'JdbcConnectionExample01.class'.
- OUTLINE:** Shows the 'JdbcConnectionExample01' class.
- PROBLEMS:** Shows 2 problems.
- OUTPUT:** Shows the output of the program, which is the result of the SQL query 'select * from students'. The output is formatted as follows:

```
ROLLNO:2024254040001
NAME:A
PARENTS_NAME:PA
SUBJECT_NAME:Computer Science
-----
ROLLNO:2024254040002
NAME:ZA
PARENTS_NAME:PZA
SUBJECT_NAME:Computer Science
-----
ROLLNO:2024254040003
NAME:ZB
```
- DEBUG CONSOLE:** Shows the command used to run the program: `PS H:\SankarsanSeal> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '@C:\Users\Sankarsan\AppData\Local\Temp\cp_arpd45b3qkl3g4qnte1muu241.argfile' 'JdbcConnectionExample01'`
- TERMINAL:** Shows the output of the program, which is the result of the SQL query 'select * from students'. The output is formatted as follows:

```
ROLLNO:2024254040001
NAME:A
PARENTS_NAME:PA
SUBJECT_NAME:Computer Science
-----
ROLLNO:2024254040002
NAME:ZA
PARENTS_NAME:PZA
SUBJECT_NAME:Computer Science
-----
ROLLNO:2024254040003
NAME:ZB
```
- PORTS:** Shows the ports used by the program.

```
JdbcConnectionExample01.java
12 public class JdbcConnectionExample01{
19     public static void main(String [] args){
34         ResultSet rs = stmt.executeQuery(sql:"select * from students");
35         ResultSetMetaData rsmt = rs.getMetaData();
36
37         while(rs.next())
38         {
39
40             for(int col_count = 1; col_count <= rsmt.getColumnCount(); col_count++)
41             {
42                 System.out.print(rsmt.getColumnName(col_count) + ":");
43                 System.out.println(rs.getString(col_count));
44             }
45
46             for(int space_count = 0 ; space_count < 80; space_count++)
47             {
48                 System.out.print(" ");
49             }
50             System.out.println();
51         }
52     }
53 }
```

Setting CLASSPATH in Linux



The screenshot shows an IDE with a Java project. The Explorer panel on the left shows the project structure, including a folder named 'DatabaseConnectionExamples' which contains a file 'CLASSPATH_Creation.PNG'. The main editor displays the code for 'JdbcConnectionExample01.java'. The code is as follows:

```
12 public class JdbcConnectionExample01{
18     // cgcdeep-HP-Pavilion-Desktop-PC-570-p0xx.local
19     Run | Debug
20     public static void main(String [] args){
21
22     try{
23         Class.forName("com.mysql.cj.jdbc.Driver");
24
25         Connection conn = DriverManager.getConnection(
26             // "jdbc:mysql://cgcdeep-HP-Pavilion-Desktop-PC-570-p0xx.local:3306/SemIV2025",
27             "jdbc:mysql://cgcdeep-HP-Pavilion-Desktop-PC-570-p0xx.local/SemIV2025",
28             "SemIV2025",
29             "admin123"
30         );
31
32         // Connection
33     }
34 }
```

The terminal window at the bottom shows the command prompt and the command to set the CLASSPATH:

```
Kernel: 5.15.0-151-generic
Uptime: 52 mins
Packages: 2390 (dpkg), 1 (flatpak)
Shell: bash 5.1.16
Resolution: 1440x900
DE: Cinnamon 6.0.4
WM: Muttter (Muffin)
WM Theme: Mint-Y-Dark-Aqua (Mint-Y)
Theme: Mint-Y-Dark-Aqua [GTK2/3]
Icons: Mint-Y-Sand [GTK2/3]
Terminal: vscode
CPU: Intel i5-7500 (4) @ 3.800GHz
GPU: Intel HD Graphics 630
Memory: 2573MiB / 3805MiB

cgcmin@cgcmin-HP-280-G3-MT: /mnt/FAF02691F02653E3/Code/SemIV_Java_2025/Java$ export CLASSPATH=/usr/share/java/mysql-connector-java-9.4.0.jar:${CLASSPATH}
```

The Jar Location In Linux if Installed in Linux default location: */usr/share/java*

