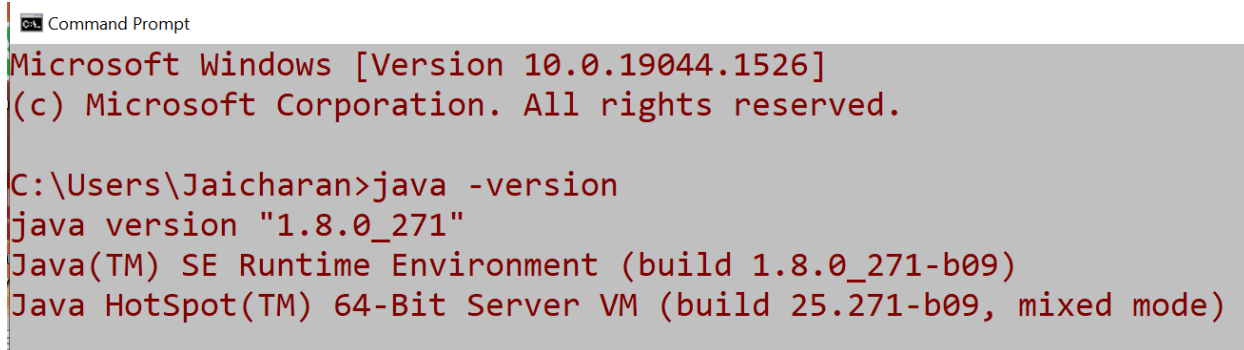


How to check Java is installed or not

Open Command Prompt.

Type

`java -version`



```
Command Prompt
Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Jaicharan>java -version
java version "1.8.0_271"
Java(TM) SE Runtime Environment (build 1.8.0_271-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.271-b09, mixed mode)
```

If it gives you java version “1.x.x_xxx” that means your java is already installed on your machine. You can go with compile and run process.

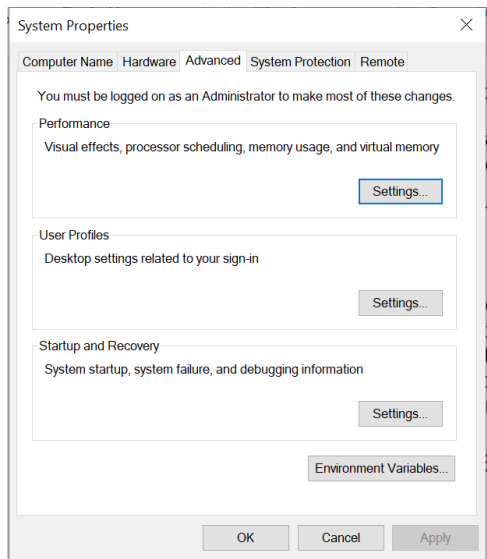
Then type `javac -version`

If it gives you javac version 1.x.x_xxx then your path also set you can move compile and run your program in that machine

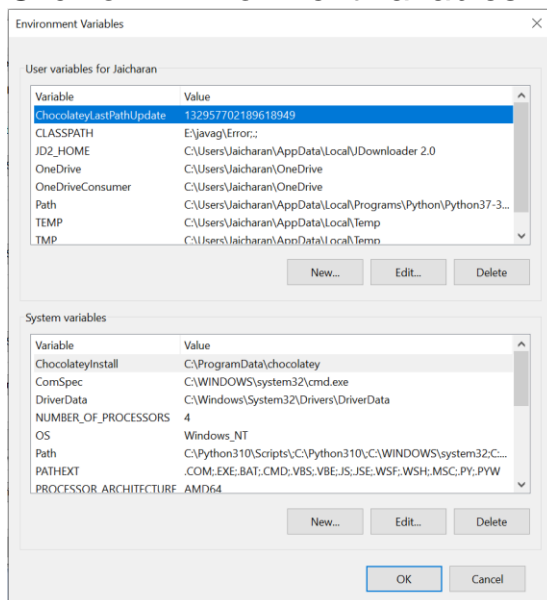
If you find javac not found kind of message you need to set path

Steps to set path

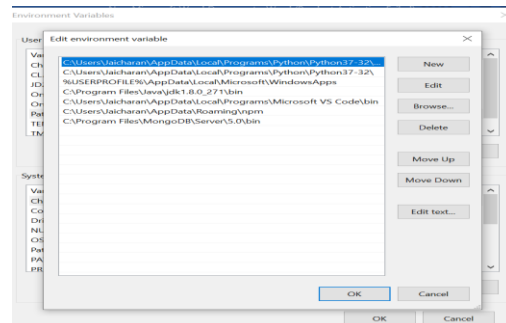
1. Go to java installed folder
2. Check the jdk 1.x.x_xxx is existing or not
3. If it is there open it in side bin directory would be there
4. Copy absolute path `C:\Program Files\Java\jdk1.8.0_271\bin`
5. Go to System properties



- 6.
7. Click on Environment variables



- 8.
9. Select Path if it is available else create new one



- 10.
11. Create new and paste the absolute path C:\Program Files\Java\jdk1.8.0_271\bin
12. Click OK

How to Compile and Run Java Program

In this section, we learn how to compile and run java program step by step.

Step 1:

Write a program on the notepad and save it with **.java** (for example, DemoFile.java) extension.

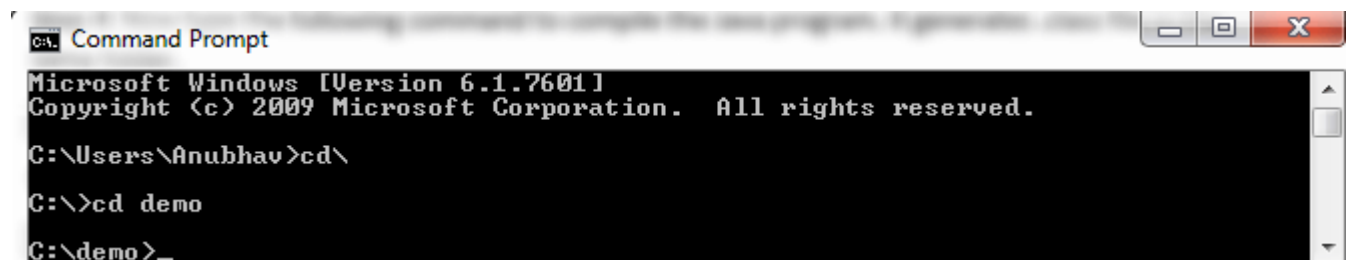
1. **class** DemoFile
2. {
3. **public static void** main(String args[])
4. {
5. System.out.println("Hello!");
6. System.out.println("Java");
7. }
8. }

Step 2:

Open Command Prompt.

Step 3:

Set the directory in which the .java file is saved. In our case, the .java file is saved in C:\\demo.

A screenshot of a Windows Command Prompt window. The title bar reads 'C:\> Command Prompt'. The window content shows the following text: 'Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved. C:\Users\Anubhav>cd\ C:\>cd demo C:\demo>'. The cursor is at the end of the last line.

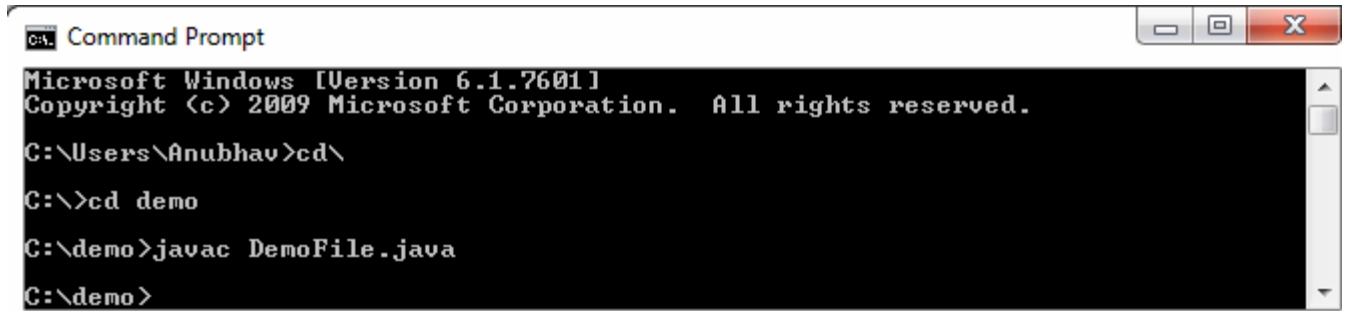
```
C:\> Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Anubhav>cd\
C:\>cd demo
C:\demo>
```

Step 4:

Use the following command to compile the Java program. It generates a .class file in the same folder. It also shows an error if any.

1. javac DemoFile.java



```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Anubhav>cd\

C:\>cd demo

C:\demo>javac DemoFile.java

C:\demo>
```

Step 5:

Use the following command to run the Java program:

1. java DemoFile



```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Anubhav>cd\

C:\>cd demo

C:\demo>javac DemoFile.java

C:\demo>java DemoFile
Hello! Java

C:\demo>
```