

Instructions on how to compile and execute Java using Command Prompt

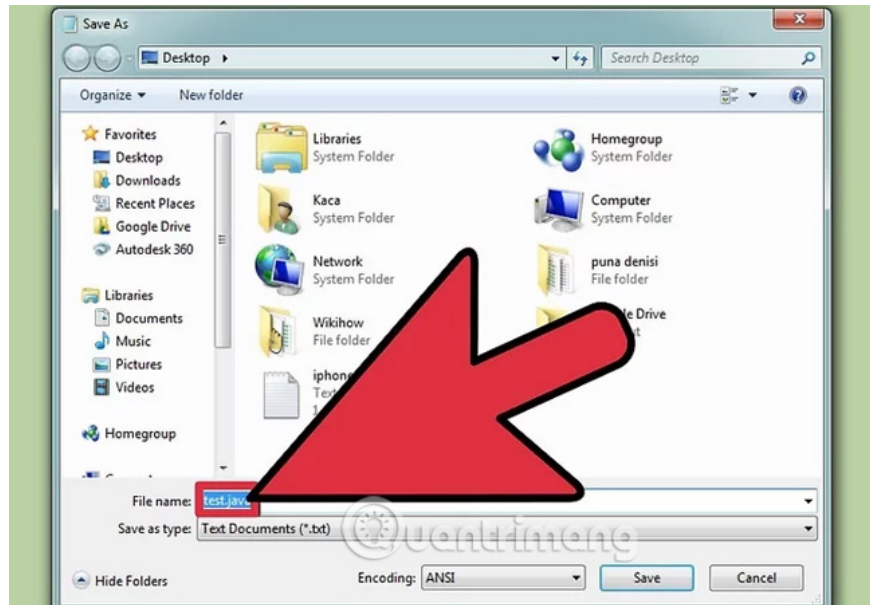
Let's TipsMake.com refer to the tutorial how to compile and execute Java by Command Prompt on Windows and Mac computers!

1. The tricks in Windows 10 you may not know
2. How to map network drives with Command Prompt in Windows
3. Set up an ad-hoc wireless network on Windows 8 to play WiFi

While many programming environments allow you to compile and execute a program within that program, you can compile and execute with the Command Prompt. Windows and Mac computers all have their own version of Command Prompt (technically, it's called Terminal on Mac OS). However, whether it is Windows or Mac, this process is essentially the same. Let's TipsMake.com refer to **the tutorial how to compile and execute Java by Command Prompt** offline!

Method 1: Compile and execute

1. Save the program

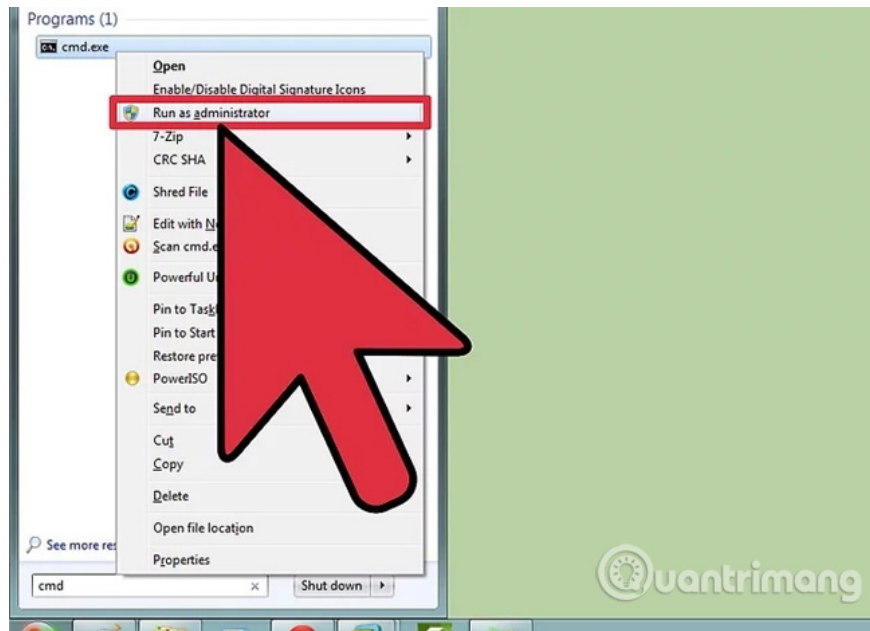


After using a text editor, such as NotePad to create Java programs, save with the extension '.java'. Of course, you can optionally name the file. For the purposes of this tutorial, "filename" will be used to represent your file

name.

1. To make sure your file is saved as a file with the '**.java**' extension, type '.java' behind the file name and select **All Files** from the extended drop-down menu.
2. Record the location where you save the file on the system.

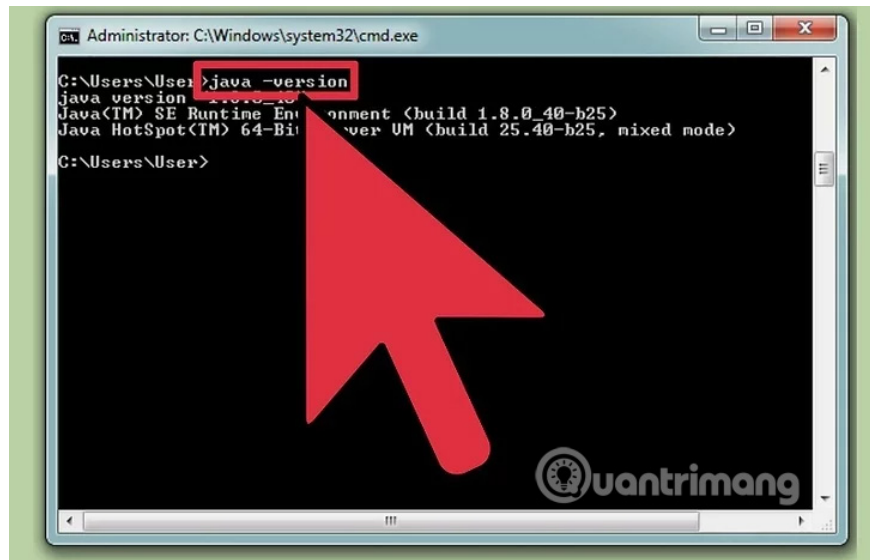
2. Open Command Prompt / Terminal



Command line access operations on Mac and Windows operating systems are slightly different.

1. **On Windows** : Click Home and then type **cmd** . Press Enter to open the Command Prompt.
2. **On the Mac** : In the Finder tool, click the **Go** tab, select **Applications** , select **Utilities**, and then select **Terminal** .

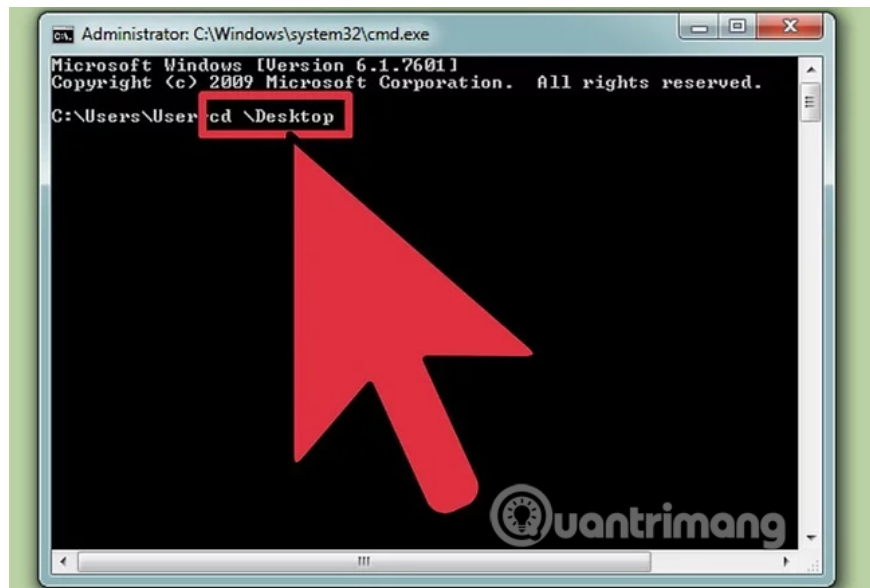
3. Check if the Java running environment is installed



Type `java -version` into the command line. If Java is installed, you will see a message telling you about the version of Java available in the machine.

If not, you need to install **Java Development Kit** from the Java homepage. You can download it for free at this link: <http://www.oracle.com/technetwork/java/javase/downloads/index.html> .

4. Navigate to the correct directory of the program



Use the `cd` command with the directory name to change the active directory. For example, if you are running at `C:\UsersBobProject` and want to move to `C:\UsersBobProjectTitanProject` , type `cd TitanProject` and press **Enter** .

Alternatively, you can view the current directory list by entering the `dir` command and pressing **Enter** .

5. Compile the program

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd Desktop
C:\Users\User\Desktop>javac -wiki.jar
```

After accessing the correct directory, you can compile the program by typing `javac filename.java` in the command line and pressing **Enter** . If any error occurs with the program or command line is not correct, Command Prompt will notify you.

6. Execute the program

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

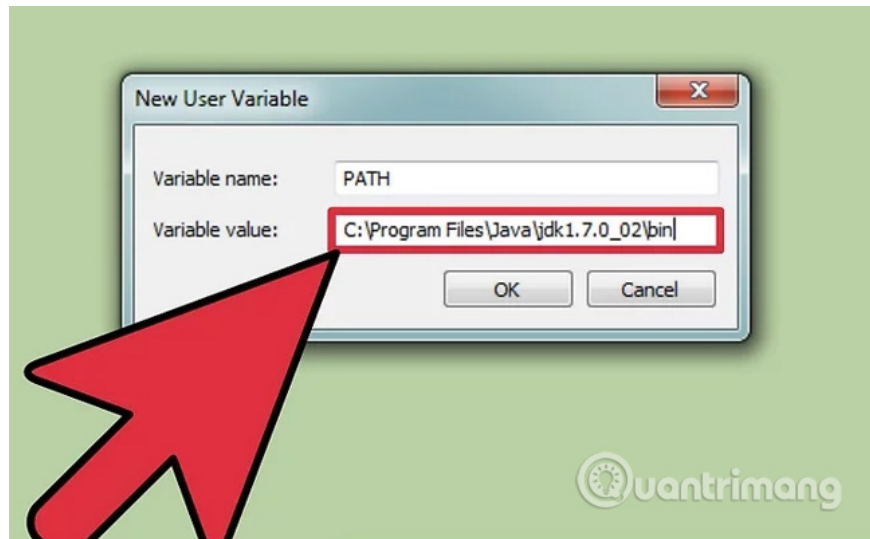
C:\Users\User>cd Desktop
C:\Users\User\Desktop>java wiki.jar
Error: Could not find or load main class wiki.jar
C:\Users\User\Desktop>_
```

Enter the `java filename` command and press **Enter** . Of course, you must replace "filename" with your actual file name.

After pressing Enter, your program will be executed. If the machine reports an error or the program encounters an error while running, continue to perform the troubleshooting procedure (troubleshooting) below.

Method 2: Troubleshooting

1. Set up the path



If you want to launch a simple program with all files in the same folder, you don't need to do this. However, if you are launching a more complex program with files located in different folders, you need to let your computer know where to find these files.

1. **On Windows** : Type `java -version` command into the Command Prompt window and press Enter. Based on the version of Java displayed in the first line, enter the code `set path=%path%;C:\Program Files\Java\jdk1.5.0_09\bin` into the command line and press **Enter** . Replace `jdk1.5.0_09` with any version of Java you have installed. Make sure you are entering this command in the correct directory for your Java project.
2. **On the Mac** : Type `/usr/libexec/java_home -v 1.7` in the Terminal window and press Enter to make sure Java is installed on the system. Next, enter the code `echo export "JAVA_HOME=$(/usr/libexec/java_home)" >> ~/.bash_profile` at the command prompt and press **Enter** . Then restart Terminal.

Refer to some more articles:

1. How to open Command Prompt on Windows 10, 8, 7, Vista and XP
2. How to compile a kernel - the way on CentOS system
3. Check and fix hard drive errors with CMD on Windows

Having fun!

You finished reading the article "**Instructions on how to compile and execute Java using Command Prompt**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.