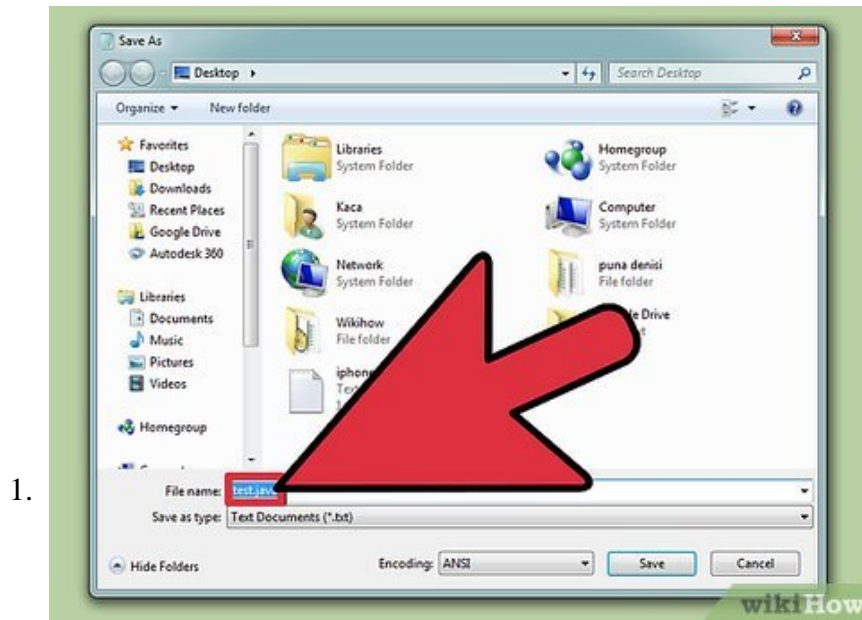


How to Compile & Run Java Program Using Command Prompt

While many programming environments will allow you to compile and run a program within the environment, you can also compile and run using Command Prompt. Both Windows and Mac have their own versions of Command Prompt, although it is...

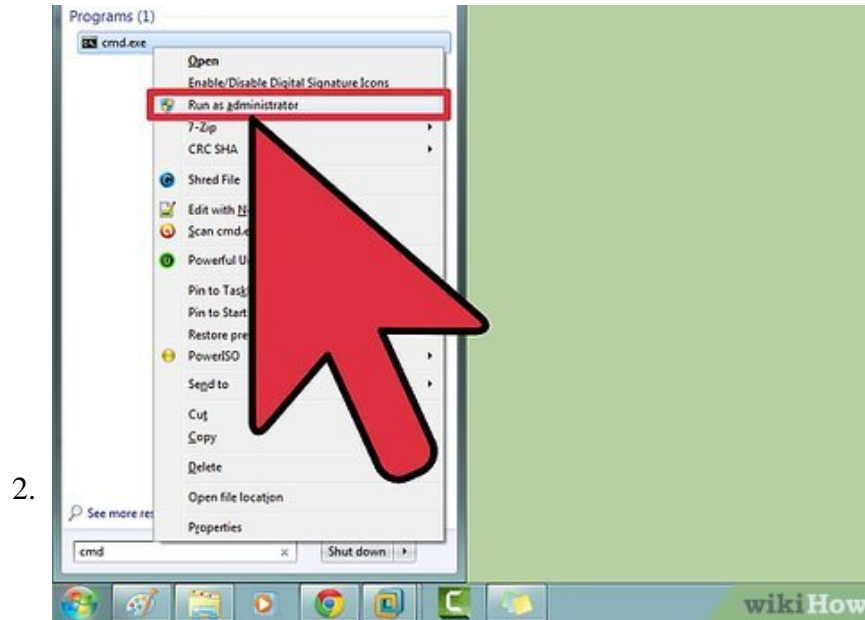
Method 1 of 2:

Compiling and Running



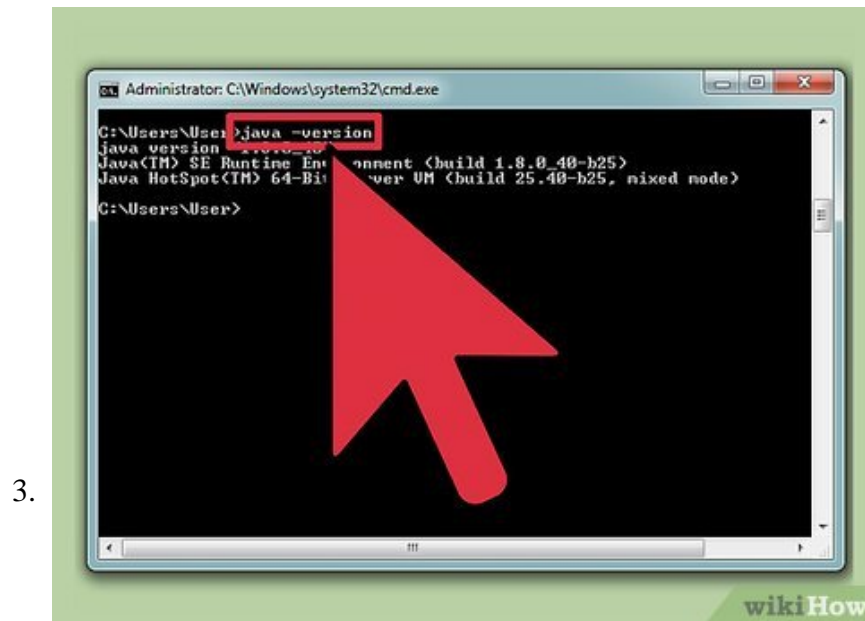
Save the program. After using a text editor, such as NotePad, to create your Java program, save the program with a .java extension. Of course, the file name can be anything. For the purposes of this tutorial, "filename" will be used as a placeholder for your file name.

1. To ensure that your file is saved as a .java file, be sure to write .java after the file name, and select **All Files** from the dropdown extension menu.
2. Make note of where you saved the file on your system.
3. If you are unsure of how to write a program in Java, check out our tutorial on how to program in Java. For the purposes of learning how to compile and run a program, though, you can use any sort of Java program.



Open Command Prompt/Terminal. Accessing the command line differs slightly for Mac and Windows.

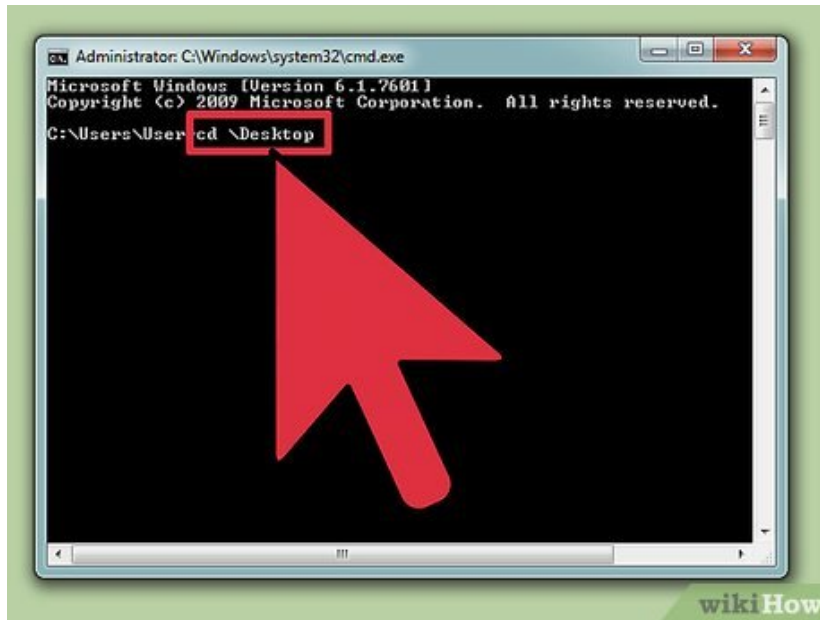
1. **Windows:** Press `? Home`, then type `cmd`. Press `? Enter` to open the Command Prompt.
2. **Mac:** In Finder, press the **Go** tab, select **Applications**, select **Utilities**, then select **Terminal**.



Check that Java is installed. Type `java -version` into your command line. If java is installed, you will see a message stating what version of Java is currently installed.

1. If not, you may need to install the Java Development Kit from their website. It is free and can be found at this link: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.

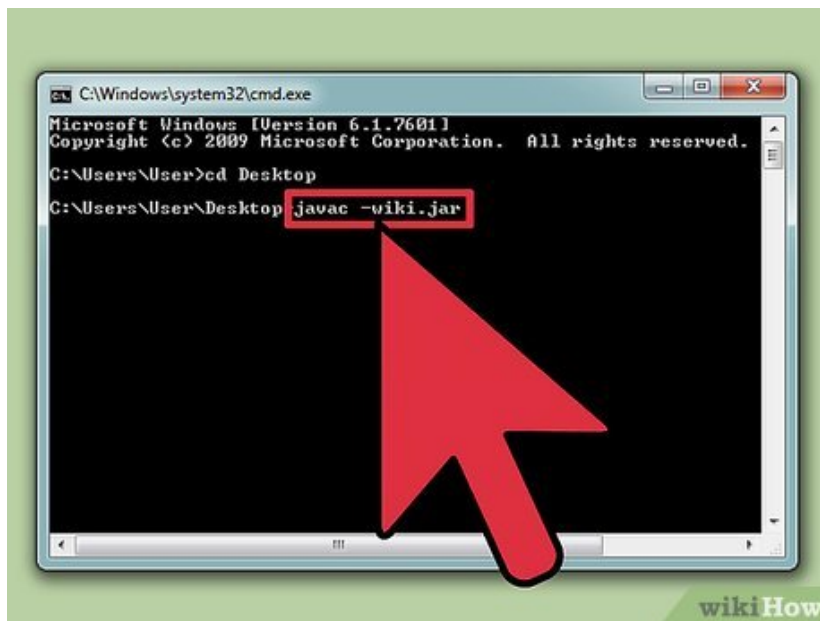
4.



Navigate to the correct folder. Use the command `cd` followed by the directory name to change your working directory.

1. For example, if you were operating in `C:\Users\Bob\Project` and wanted to get to `C:\Users\Bob\Project\TitanProject`, enter in `cd TitanProject` and press `?Enter`.
2. You can see a list of what is in your current directory by typing `dir` and pressing `?Enter`.

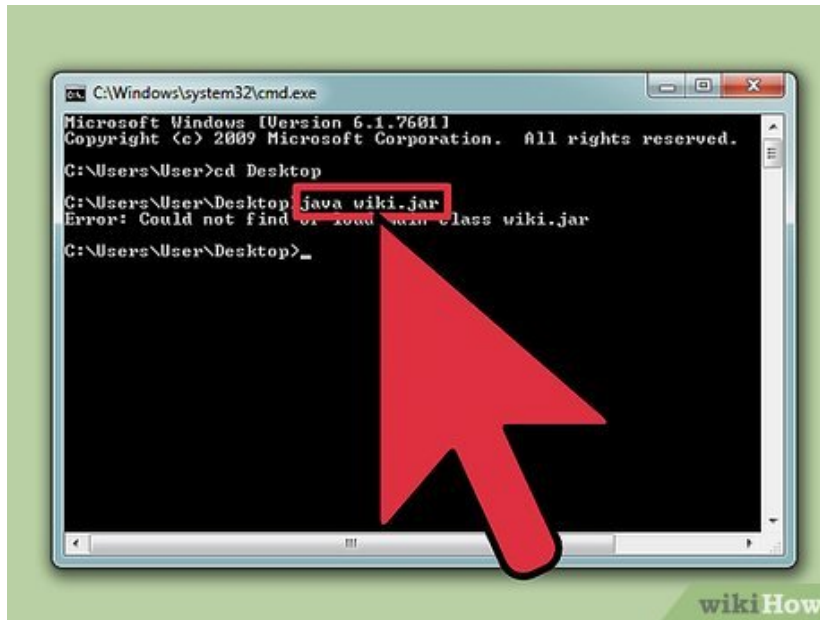
5.



Compile the program. Once you are in the correct directory, you can compile the program by typing `javac filename.java` into the command line and pressing enter.

1. If you have any errors in your program, or if there is difficulty compiling, the command prompt will notify you.
2. Check out our article about how to fix compiler errors in Java for more help.

6.



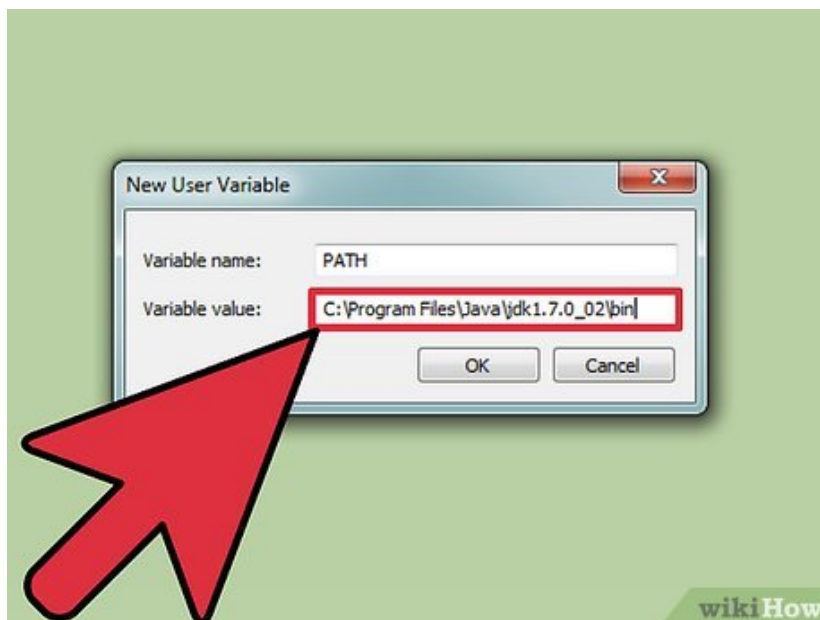
Run the program. Enter in `java filename` and press `?Enter`. Of course, replace "filename" with whatever the name of your file actually is.

1. After pressing `?Enter`, your program should run. If you receive an error, or if your program fails to run in any way, refer to the troubleshooting method.

Method 2 of 2:

Troubleshooting

1.



Set your path. If you are running a simple program with all of the files in the same directory, you will probably not need to do this. However, if you are running a more complex program with files in multiple directories, you will need to tell the computer where to look for these files.

1. **Windows:** Type `java -version` into the command prompt and press `?Enter`. Based off the version of Java displayed on the first line, type in `set path=%path%;C:Program Files\Java\jdk1.5.0_09bin` to the command prompt and press `?Enter`. Substitute **jdk1.5.0_09** with whatever version of Java you have installed.
 1. Be sure you are entering in this command while in the directory containing your Java project.
2. **Mac:** Type `/usr/libexec/java_home -v 1.7` into the terminal and press `?Enter` to ensure Java is installed on your system. Then, type `echo export "JAVA_HOME=$(/usr/libexec/java_home)" >> ~/.bash_profile` into the terminal and press `?Enter`. Restart the terminal afterwards.

You finished reading the article "**How to Compile & Run Java Program 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.