# How to run a Java program in Windows 10

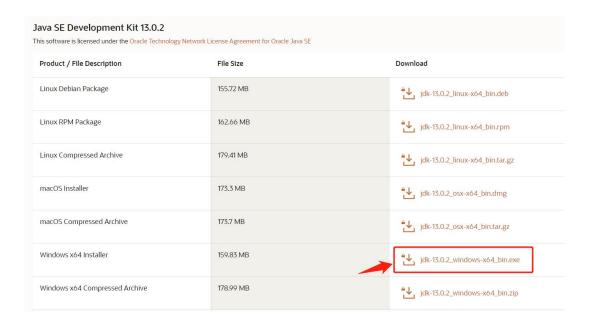
To run a java program in Windows 10, we need first to install Java and then set up the environment variables. To do this, follow the following steps.

#### How to install Java?

Step 1) Visit the oracle website and then click on "JDK Download".



Step 2) Now, on the next page, download the .exe file of JDK for windows.



**Step 3)** After downloading the file, start the installation process by clicking on the file.

Step 4) Keep clicking on next and don't alter any default setting.

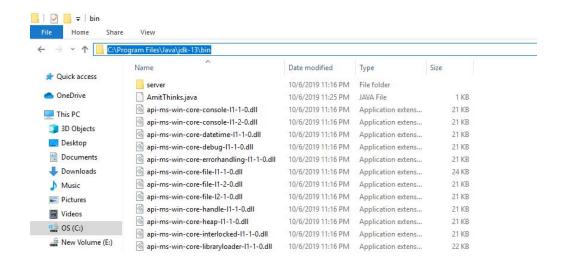
After installation, we need to set the environment variables.

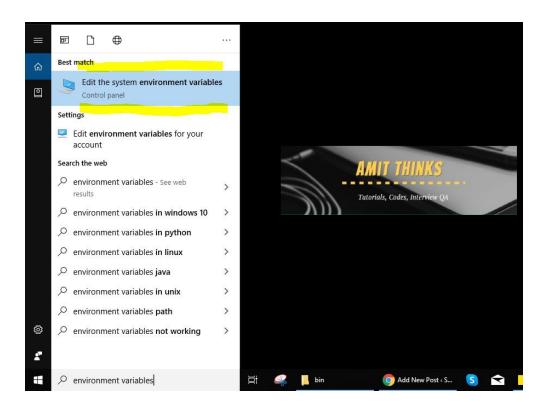
### How to set up environment variables?

**Step 1)** At first, copy the path wherein you installed the Java JDK. Let us copy it first. Remember, we need to copy the bin path i.e. the following on our system

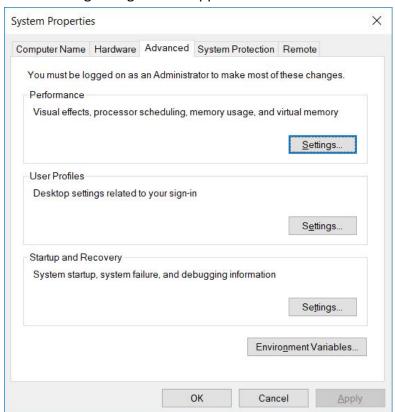
-- C:\Program Files\Java\jdk-13\bin

Step 2) Here's the screenshot of the "bin" path, wherein we installed Java 13:

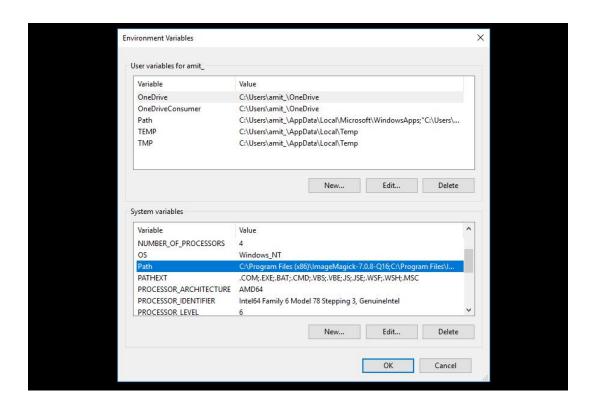




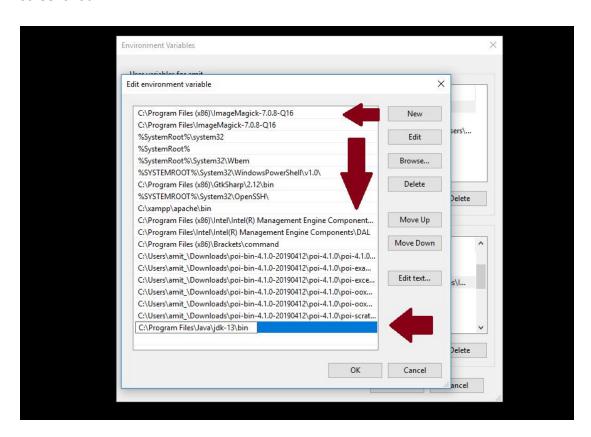
The following dialog box will appear.



**Step 4)** Click on "Environment Variables", go to system variables, and double click on "Path".



**Step 5)** On clicking "Path", a new dialog box will open. From there, click "New" and add the Java JDK path "C:\Program Files\Java\jdk-13\bin" as displayed in the below screenshot:



The setup of the Java environment is complete.

## **Verify Java JDK 13 Installation**

We saw how to install Java JDK 13 above. We installed on Windows 10 OS. Now, we can easily verify whether the installation was successfully or not using the following command:

-- java -version

Let us implement the above command on command prompt (cmd) and verify Java installation:

```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.17134.1040]

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C:\WINDOWS\system32>java -version
```

Therefore, the installation verification is now complete and successful since now we can see the version in the command prompt:

## How to run a Java program in Windows 10

To understand how to run a Java program in Windows 10, we will see a simple example of a Hello World program.

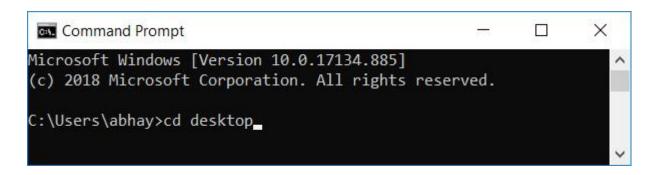
**Step 1)** Open a text editor and write the java code for the program. The program for HelloWorld.java is given below.

```
public class HelloWorld{
    public static void main(String[] args){
        System.out.println("Hello world");
    }
}
```

**Step 2)** Save this file with the .java extension. Make sure that the name of the file should be the same as that of the public class. If the file doesn't have any public class, we can save it with any name, but after compilation, a bytecode file will be generated with the name of the class containing the main method.

**Step 3)** Now, open the command prompt and open the directory in which we have saved our program by using the following command.

-- cd desktop



In this case, the directory is desktop.

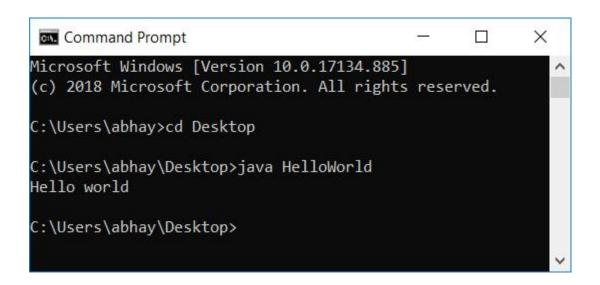
**Step 4)** Now, run the following command to compile the Java program.

-- javac HelloWorld.java



**Step 5)** After the code is compiled, it generates a bytecode file in the same folder having the .java file with a .class extension. This is the file which is executed by the JRE. To run this file, use the following command.

-- java HelloWorld



The output of the program will be seen on the command prompt.

This is how we can run a java program in Windows 10.