

JAVA 8 - ENVIRONMENT SETUP

Try it Option Online

We have set up the Java Programming environment online, so that you can compile and execute all the available examples online. It gives you confidence in what you are reading and enables you to verify the programs with different options. Feel free to modify any example and execute it online.

Try the following example using **Try it** option available at the top right corner of the below sample code box:

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

For most of the examples given in this tutorial, you will find a **Try it** option in our website code sections at the top right corner that will take you to the online compiler. So just make use of it and enjoy your learning.

Local Environment Setup

If you want to set up your own environment for Java programming language, then this section guides you through the whole process. Please follow the steps given below to set up your Java environment.

Java SE is available for download for free. To download [click here](#), please download a version compatible with your operating system.

Follow the instructions to download Java, and run the **.exe** to install Java on your machine. Once you have installed Java on your machine, you would need to set environment variables to point to correct installation directories.

Setting Up the Path for Windows 2000/XP

Assuming you have installed Java in c:\Program Files\java\jdk directory –

- Right-click on 'My Computer' and select 'Properties'.
- Click on the 'Environment variables' button under the 'Advanced' tab.
- Now, edit the 'Path' variable and add the path to the Java executable directory at the end of it. For example, if the path is currently set to C:\Windows\System32, then edit it the following way

```
C:\Windows\System32;c:\Program Files\java\jdk\bin.
```

Setting Up the Path for Windows 95/98/ME

Assuming you have installed Java in c:\Program Files\java\jdk directory –

- Edit the 'C:\autoexec.bat' file and add the following line at the end –

```
SET PATH=%PATH%;C:\Program Files\java\jdk\bin
```

Setting Up the Path for Linux, UNIX, Solaris, FreeBSD

Environment variable PATH should be set to point to where the Java binaries have been installed. Refer to your shell documentation if you have trouble doing this.

For example, if you use bash as your shell, then you would add the following line at the end of your **.bashrc** –

```
export PATH=/path/to/java:$PATH'
```

Popular Java Editors

To write Java programs, you need a text editor. There are even more sophisticated IDEs available in the market. The most popular ones are briefly described below –

- **Notepad** – On Windows machine, you can use any simple text editor like Notepad *recommended for this tutorial* or WordPad. Notepad++ is also a free text editor which enhanced facilities.
- **Netbeans** – It is a Java IDE that is open-source and free which can be downloaded from <http://www.netbeans.org/index.html>.
- **Eclipse** – It is also a Java IDE developed by the Eclipse open-source community and can be downloaded from <http://www.eclipse.org/>.

IDE or Integrated Development Environment, provides all common tools and facilities to aid in programming, such as source code editor, build tools and debuggers etc.

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