Speed16 Academy
(Online IT Training Academy)
Python, Java & Eclipse Installation Guide

Part – 1: Installation of Python3 in Windows:

1. Visit: https://www.anaconda.com/distribution/; Scroll down and download Anaconda Distribution (Select Latest version of Python3)
2. Install the downloaded Executable File. Note the Path.
3. **Very IMP:** While Installing, In Advanced Options: Select first checkbox (Add Anaconda to my PATH environment variable).
4. Anaconda distribution automatically installs many things at a time (Python, Jupyter Notebooks, many Data Science Modules etc.)

Trouble Shooting: Setting up the Environment (If you have not followed Step 3 or installed Python from https://www.python.org/downloads/)

Setting up the PATH - Environment (If not set)

- Right Click on *My Computer*.
- Click on *Properties;* then on *Advanced System Settings* or *Advanced* and then on *Environment Variables*.
- Under *System Variables* search for the variable *Path*.
- Single click on Select *Path*. Click on *Edit*.
- Scroll all the way to the right of the field called *Variable value* using the right arrow of your keyboard.
- Add a semi-colon (;) to the end and write the path as: C:\Python37. Click *OK*.
- Note: Give path name as per yours.

After editing it looks like:

C:\Program Files (x86)\Common Files\Oracle\Java\javapath;--------;C:\Program Files\Calibre2**\;C:\Python3**

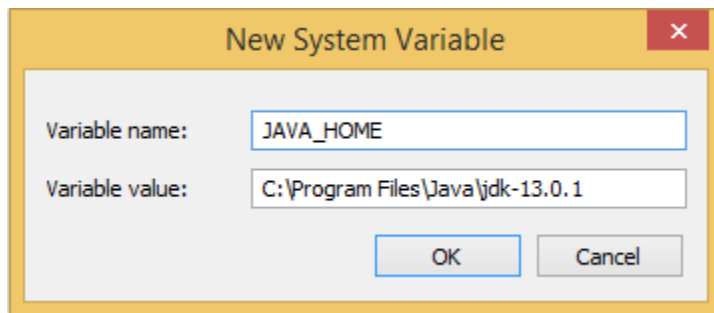## Part – 2: Installation of Latest Version of Java

Eclipse is built on Java. So to use eclipse you need to install latest version of Java. You also need to set its PATH.

- Visit: https://www.oracle.com/in/java/technologies/javase-downloads.html; Click on JDK Download; Download latest version of **JDK Installer (exe)** as per your OS.
- Run the File and Install.
- Set the PATH and Update System PATH.

How to Set the PATH - Environment (If not set)
- Right Click on *My Computer*.
- Click on *Properties;* then on *Advanced System Settings* or *Advanced* and then on *Environment Variables*.

- Under *System Variables;* Click on New.
- Variable name: just write   JAVA_HOME
- Variable value: Enter path to your Java JDK directory (give path as per yours)
- It should look like:

Update System PATH:
- Under Environment Variables; Go to System variables; Scroll Down
- Click on Path; Click on Edit.
- Under "Edit environment variable" Click on "New" (You will find it at Right Hand Side) and Type below line or Copy Paste
- %JAVA_HOME%\bin

Cross Verify the Path:
- Open command prompt and type below:
- echo %JAVA_HOME%
- You should get output something like below.
- C:\Program Files\Java\jdk-13.0.1
- type below content in Command Prompt
- javac –version
- You should get output something like below.
- javac 13.0.1
- If you are getting above outputs. You are done.
- If not, you might have made some mistakes in above steps. So repeat above steps again.

Part – 3: Installation of Eclipse in Windows:

Installation of Eclipse CDT:
- Visit https://www.eclipse.org/cdt/ and download latest Eclipse CDT for Windows.
- Click on installed file and choose: Eclipse IDE for C/C++ Developer
- Chose Folder (In C drive create Eclipse2 folder and chose it), Accept and Install (approximate time: 3-4 minutes)
- Now, Go to Eclipse2 Folder, Right Click on eclipse.exe (one with the eclipse logo 🌐 and fourth last item) and select Pin to Taskbar. Next time onwards; Go to Taskbar, Click on 🌐 to start Eclipse.

Part – 4: Installation of PyDev plugin in Windows:

A: Installation of the PyDev plug-in for Eclipse
- Launch Eclipse
- Go to help -> Install New Software
- Enter http://pydev.org/updates in the Work with: field.
- Click on Add
- You will get two options. 1. PyDev 2. PyDev Mylyn Integration
- Just chose first one. 1. PyDev
- Click NEXT/ YES/ OK/ TRUST CERTIFICATE and FINISH installation.

If above step doesn't work, then try below alternate option.

A: Installation of the PyDev plug-in for Eclipse using Zip file
- Download Latest version of PyDev from https://sourceforge.net/projects/pydev/files/
- Paste the Downloaded Zip File in eclipse/dropins folder and Extract. (C -> Eclipse2 -> Eclipse -> Dropins or the Path as per your system).

B: Configuring PyDev
- Go to Window => Preferences => PyDev (Left Side, Middle) => Interpreters => Python Interpreters
- Click on New
- Interpreter Name: Python3
- Interpreter Executable: C:\Python3\python3.exe (or the path as it shows in your machine)
- Click Ok. One window will appear and Select C:\Python3 and Click Ok.

Part – 5: Writing Your First Hello World Program:

A: Writing First Python Program
- Change Perspective: Window => Perspective => Open Perspective => Other => PyDev
- Eclipse will restart.
- Click on File => New => PyDev Project
- Give Project Name (say your name) => Finish
- Right Click on Project Name => New => File
- Give File Name as Hello.py => Finish
- Type Below Lines

Note: Don't copy this code. Write it by yourself.

My First Python3 Program
print ("Hello World")

B: Executing Your Python3 Program:
- Save: Ctrl+S
- Build: Ctrl+B
- Run: Ctrl+F11
- Watch Output.
- Congratulations. You made it.

Contact:
Mr. Chaitanya Patil
www.Speed16.com/books/vm
+91-97640-58-654
info@speed16.com
Direct WhatsApp (https://wa.me/919764058654/?text=Hi)

- **Vedic Speed Mathematics:** Learn Ancient India's Amazingly Compact, Powerful and World's Fastest Mental Calculation System @just **₹: 99 (1.3 US$)**.
- Paperback, eBook, Video Course, Free Workbook & Online Interactive Training on Vedic Speed Mathematics, C & Python Programming.
- www.Speed16.com/books/vm
- Online Python Programming (Separate Batches for Software Professionals and US/Europe High School Students) www.Speed16.com/training
- IT Training: www.Speed16.com/training
- Contact: Chaitanya Patil info@speed16.com +91-97640-58-654 Direct Whatsapp

---

Vedic Speed Mathematics & Python:
--
Anything & Everything at just ₹:99 (1.3US$)
--
10,000+ Satisfied Learners & Counting..
--
Vedic Speed Mathematics:
{Books, eBooks, Quizzes, Video Course (52 Videos), Study Materials, Workbook, Online Training & Certificate}
Link: www.Speed16.com/books/vm
--
Python:
{Books, eBooks, Quizzes, Video Course, Study Materials, Workbook, & Certificate}
Link: www.Speed16.com/books/python
--

Online Interactive Maths, Python & all IT Training (For Students & IT Professionals)
Link: www.Sped16.com/training
--
Download this PDF File for Details:
Link: www.Speed16.com/files/vm/vm.pdf
--
Join to get FREE Updates & FREE Study Materials:
FB Page:
www.facebook.com/SpeedMaths99
Telegram Channel:
https://t.me/SpeedMaths
--
Contact:
Mr. Chaitanya Patil
www.Speed16.com/books/vm
+91-97640-58-654
info@speed16.com
Direct WhatsApp (https://wa.me/919764058654/?text=Hi)
--
Sharing is Caring. Share with All.