

Introduction to Python and Eclipse

Running Hello World Application in python via Eclipse IDE

Python is an open source programming language made to both look good and be easy to read, it is an interpreted language.

Eclipse is an integrated development environment (IDE) for developing applications.

In this tutorial we are trying to integrate programming language Python into Eclipse and Run Hello World Program.

Install Python

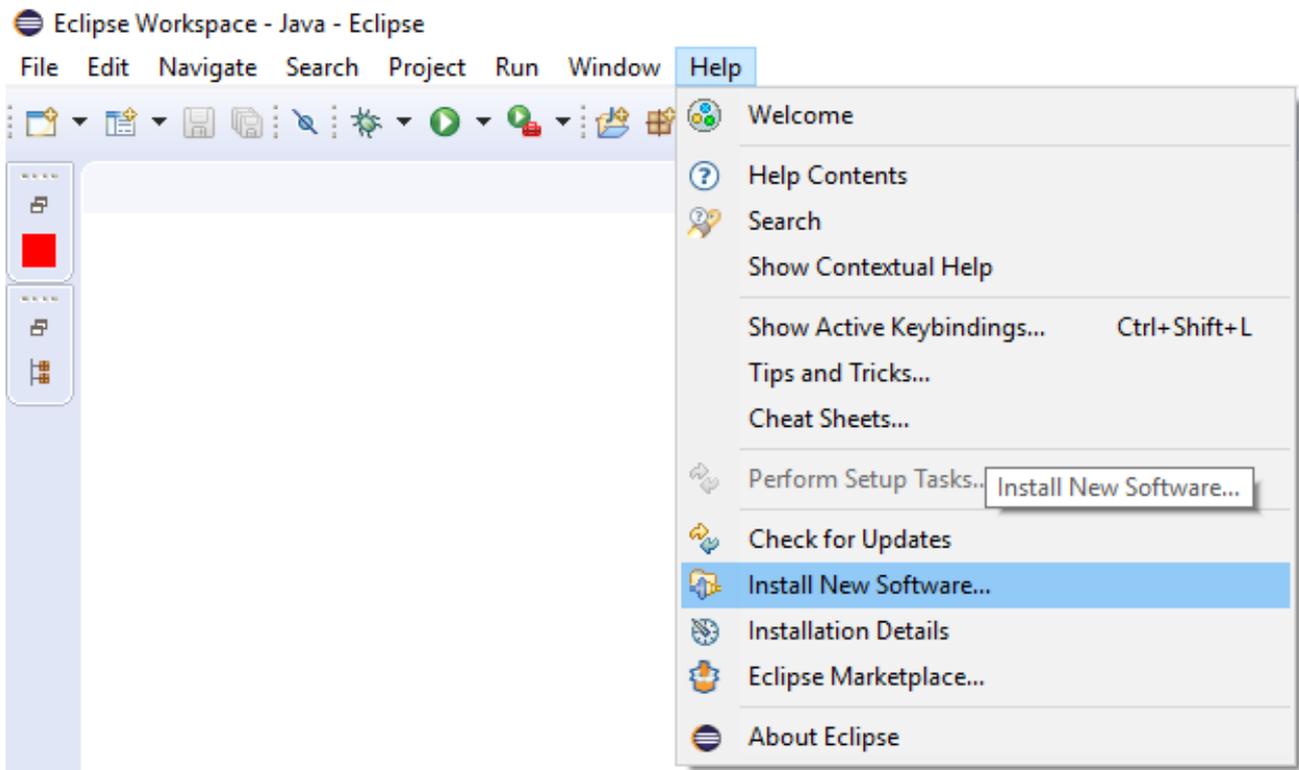
First python is needed to be installed in your computer, if it is already present then its good or else you can download from this link <https://www.python.org/downloads/>. (We are using Python 2.7)

Install Eclipse

Eclipse neon is recommended for integrating python in Eclipse. In order to install eclipse visit this site <https://www.eclipse.org/downloads/packages/eclipse-ide-eclipse-committers/neon3>.

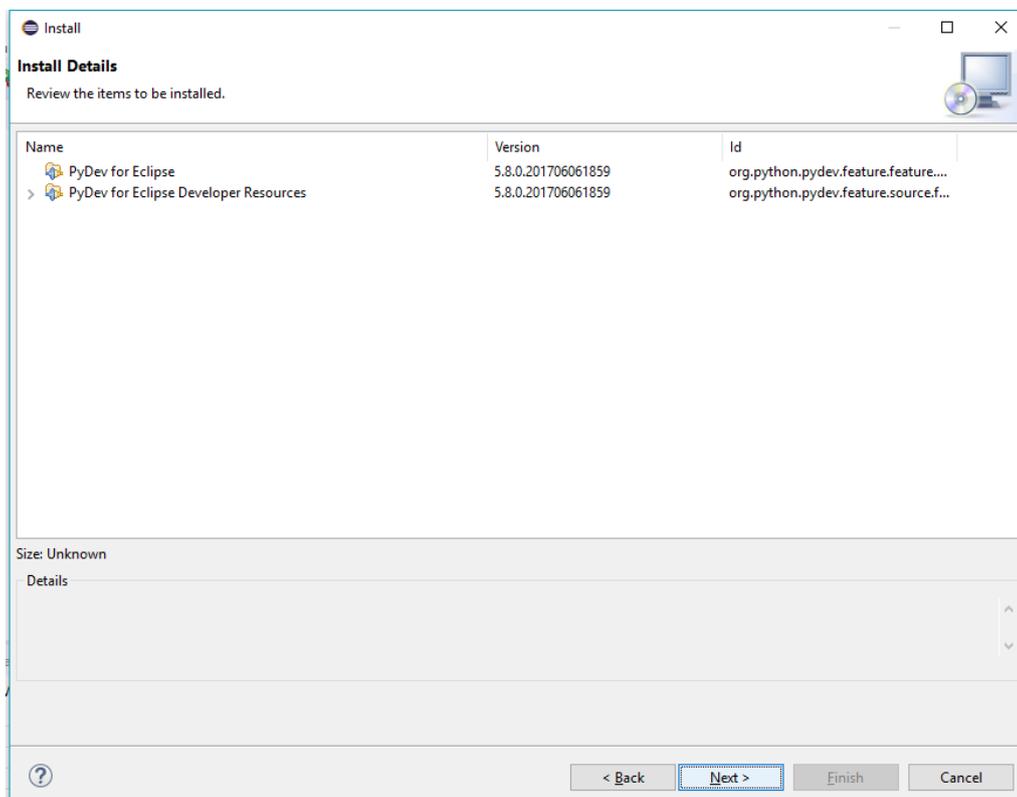
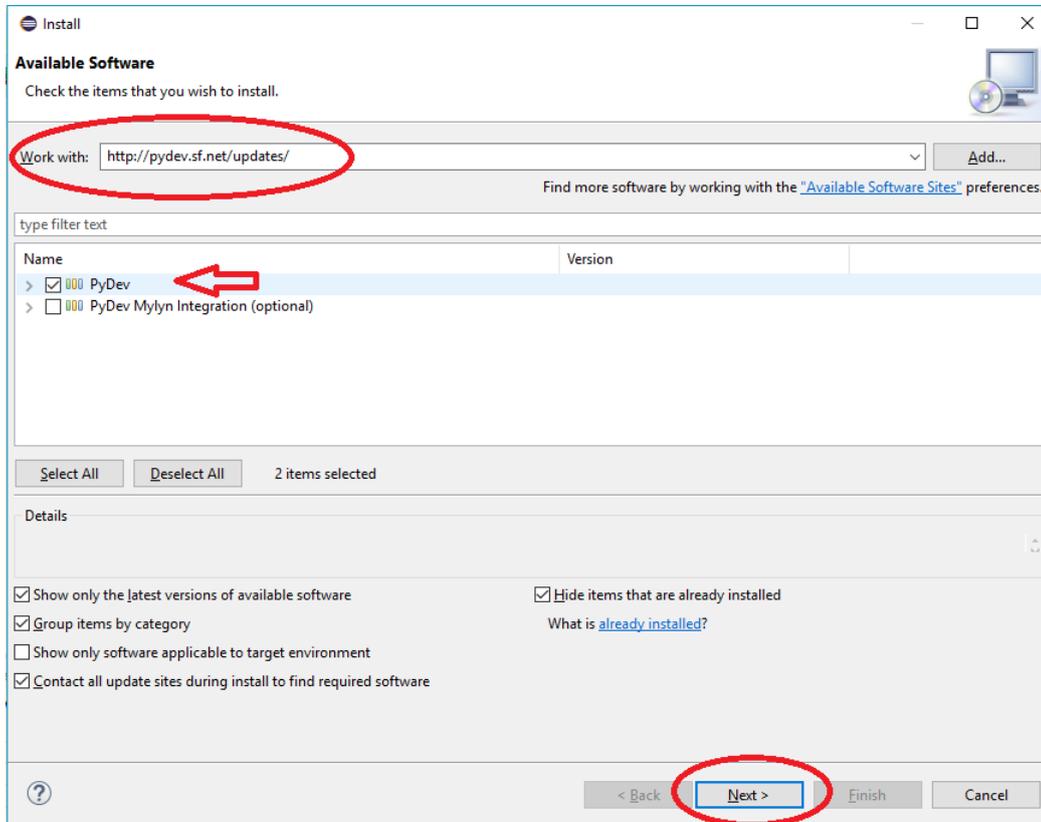
Steps to install PyDev in Eclipse

1. Install new software in Eclipse. Help>Install New Software... An Available Software window will pop up.

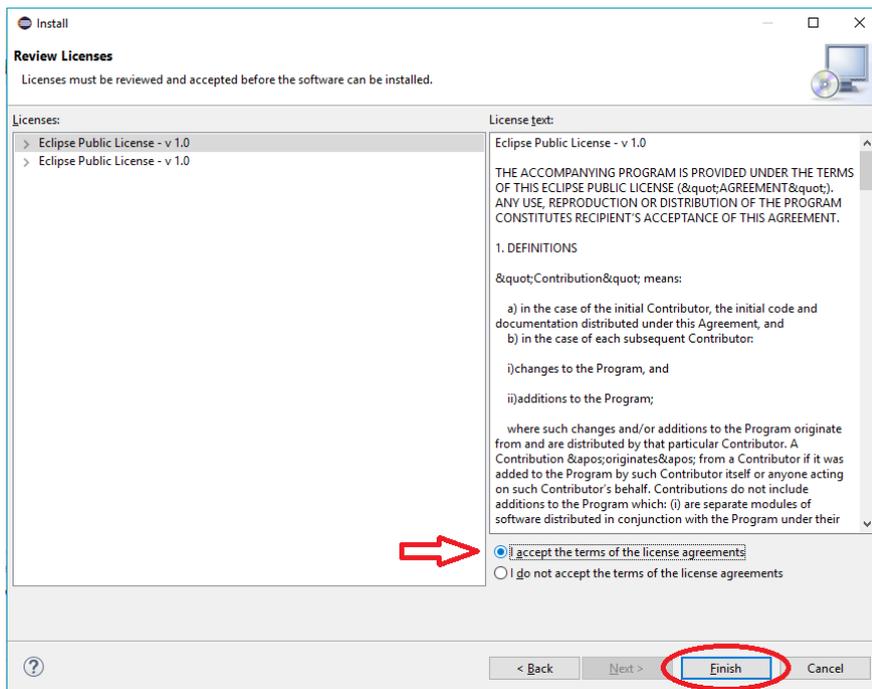


2. Type "http://pydev.sf.net/updates/" in text area of Work with and hit Enter.

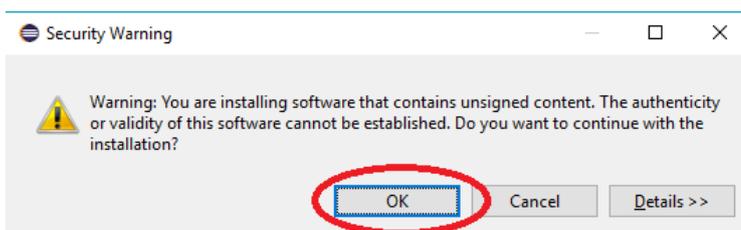
3. Select PyDev from the list and click next twice.



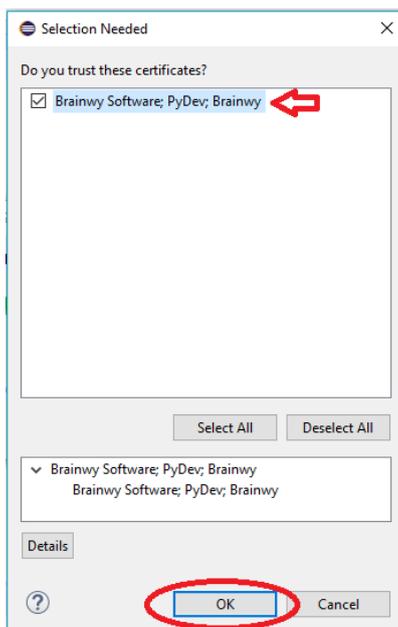
4. Read and accept the Agreement then click Finish.



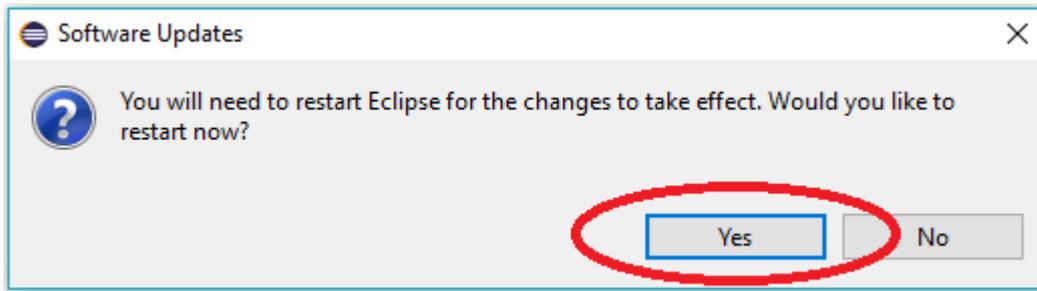
5. PyDev will start to install. While installing a pop up window of Security Warning may ask for the authenticity click OK.



6. A pop up window of selection of certificates will pop select the given certificate and click OK.

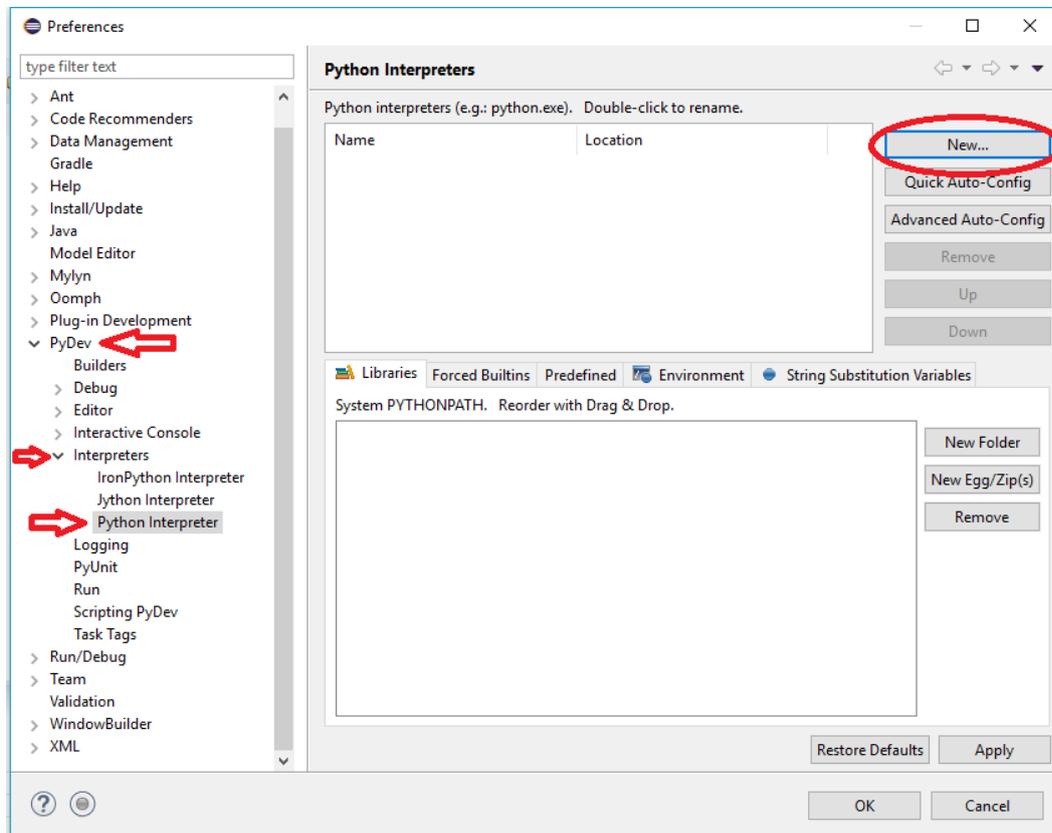
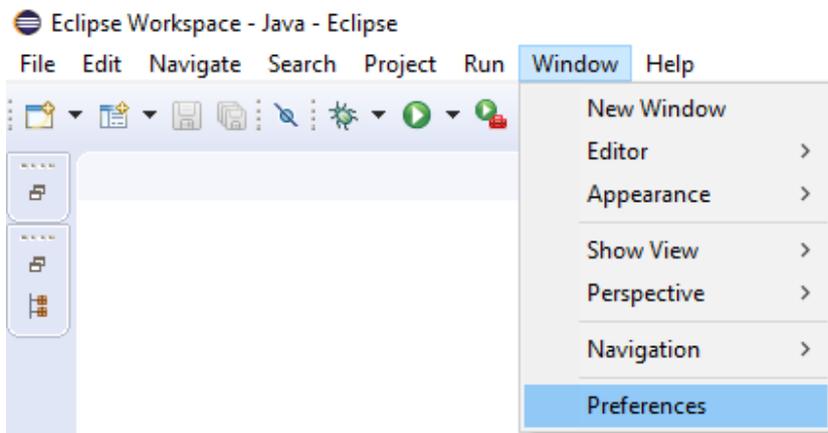


7. After the selection of certificate a window will open asking to restart eclipse, click Yes.

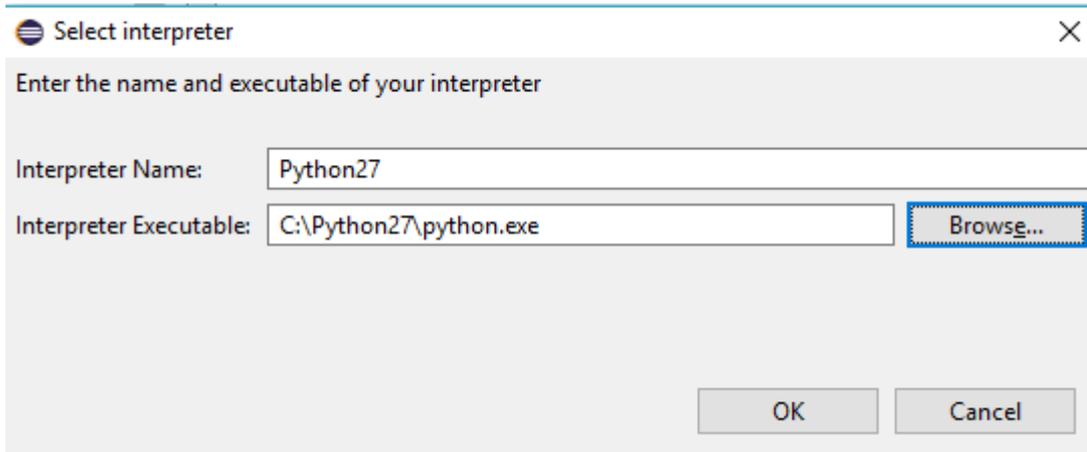


Configuring PyDev

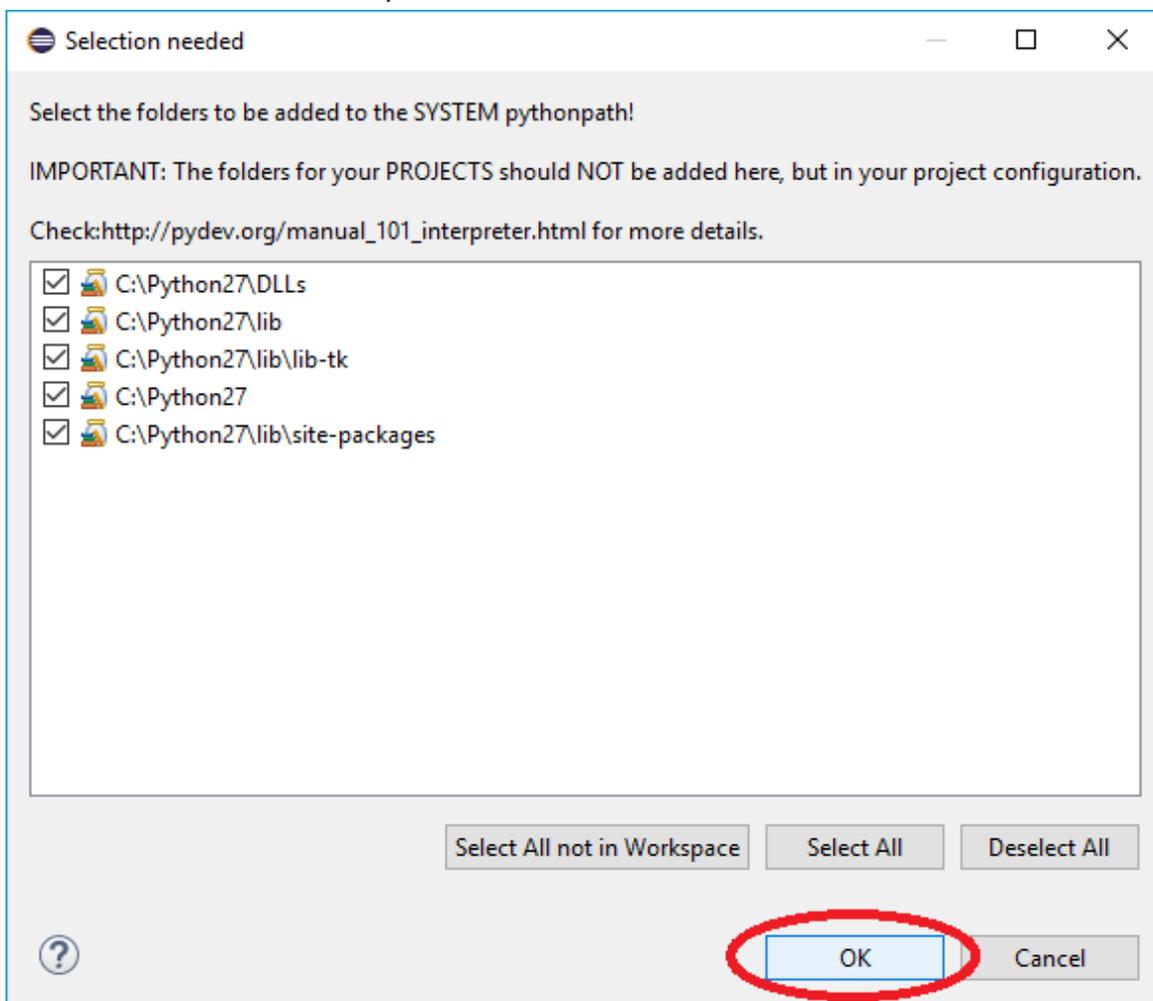
1. Open the preference window within Eclipse. Window > Preferences. Select Python Interpreter by Expanding PyDev> Interpreters.



2. Click on New... and enter interpreter name as Python27 and Browse the location in which you have installed the Python and select python.exe file (In normal case it will be present in C:\Program Files\Python27\python.exe).

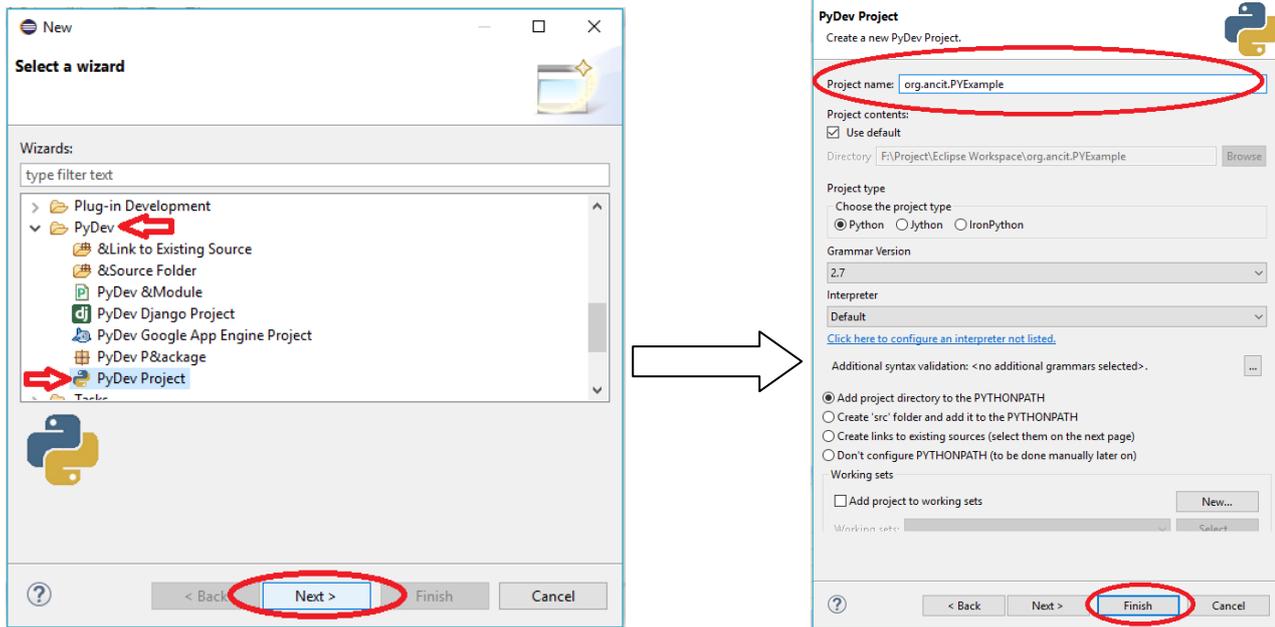


3. After this a selection needed window will open by default everything will be selected if not select all and click OK. Also click Ok for the preferences window.

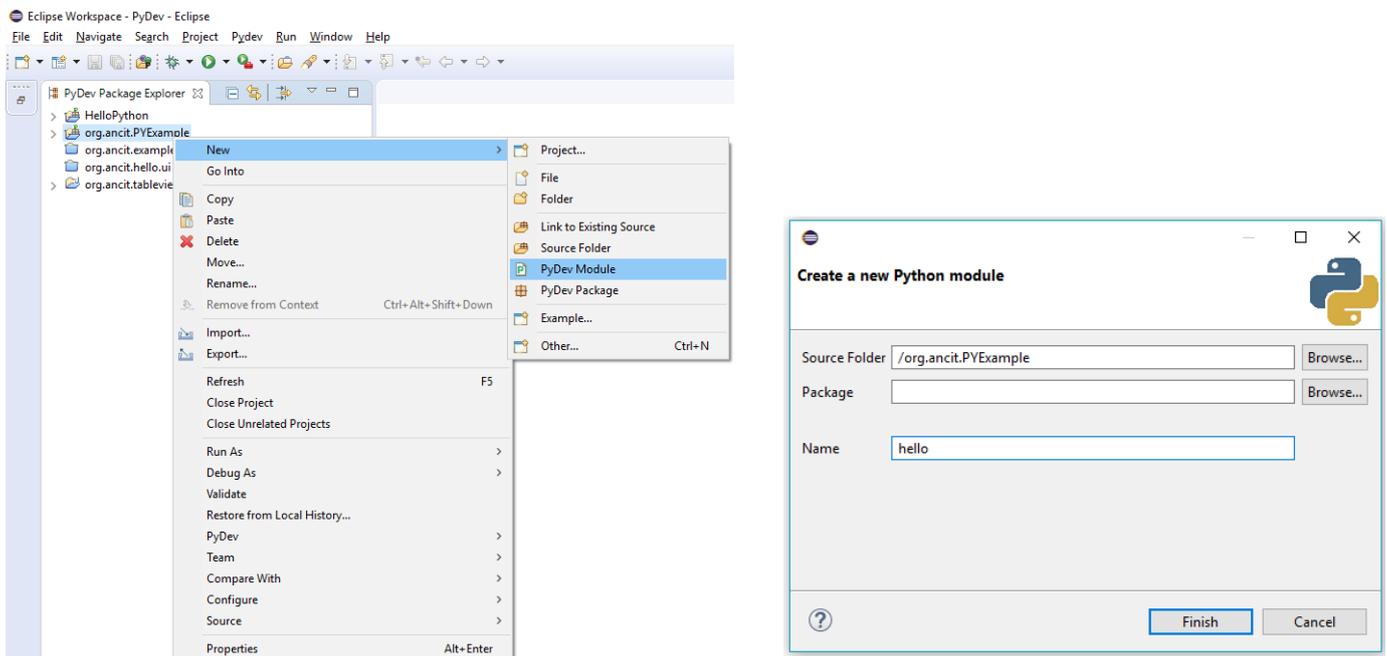


Hello World Program

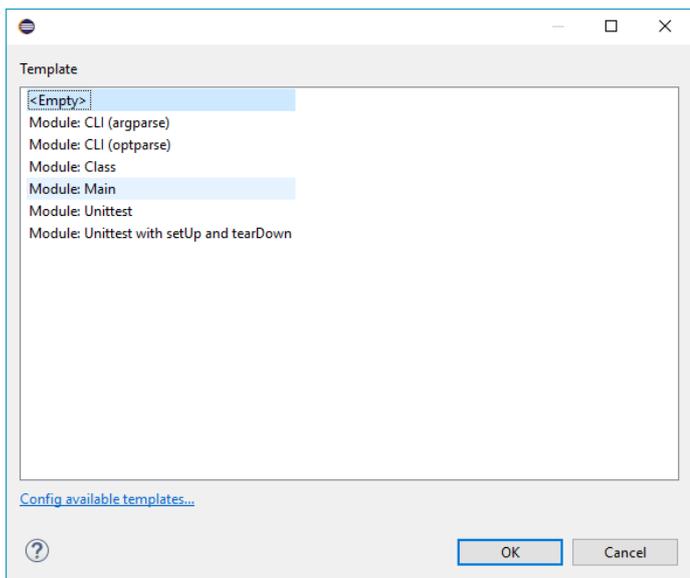
1. Select PyDev project from File > New Project >Other >PyDev, Expand PyDev and Select PyDev Project and click Next. In PyDev Project Give a name for the Project for example org.ancit.PYExample and Hit Finish.



2. Project name will be displayed in the Package Explorer of Eclipse. Right Click on your Project present in Package Explorer then select PyDev module from New > PyDev Module. Enter any name for the module for example hello and click Finish.



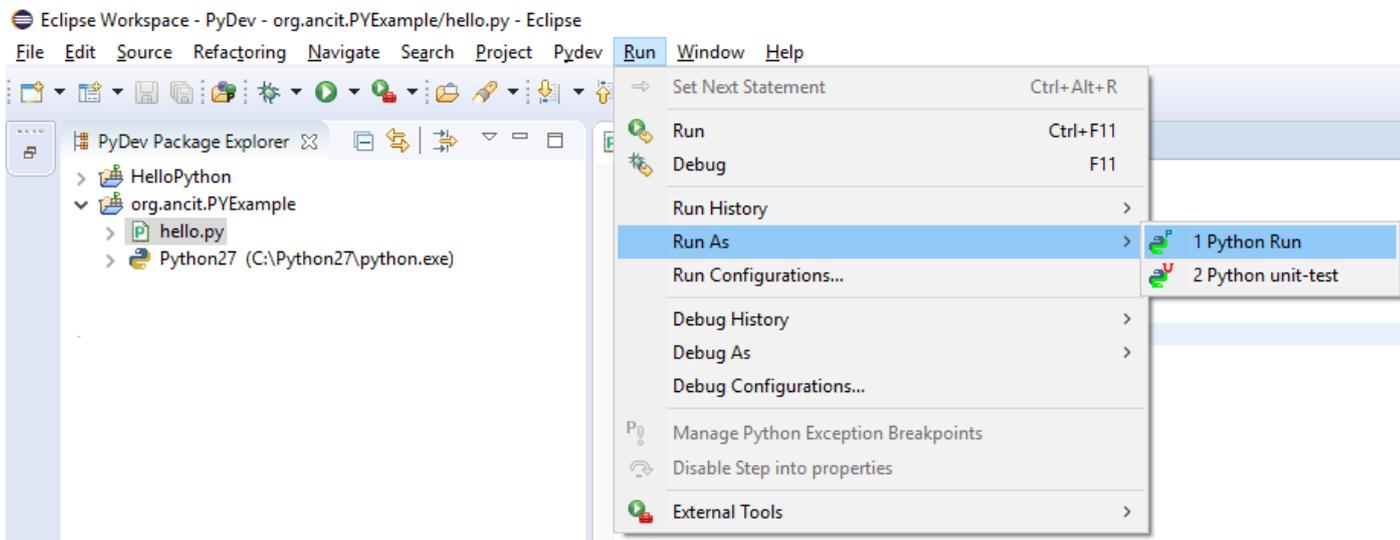
3. A template window will open select template according to your need. In this case select Module Main and click OK.



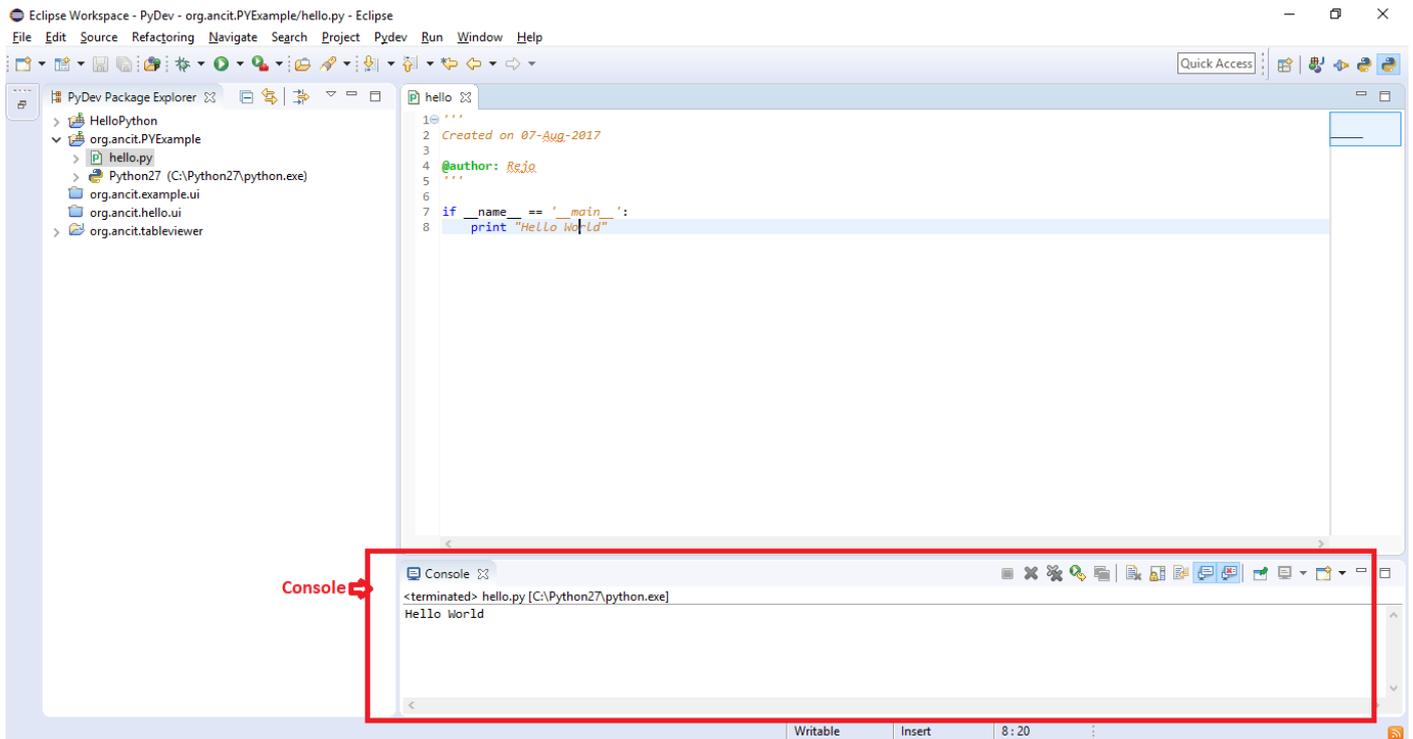
4. A Module named hello.py with main will open. Write the Following code in your module and save it.

```
if __name__ == '__main__':  
    print "Hello World"
```

5. Now Run the code as Python Run. In menu bar select Run > Run As > Python Run. A window named save and launch may open select your module ex: hello.py and click Ok.



6. Hello World will get printed in the console.



We have successfully printed Hello World in Eclipse Console via Python Language.
Hope this tutorial was helpful.

ABOUT ANCIT:

ANCIT Consulting is an Eclipse Consulting Firm located in the "Silicon Valley of Outsourcing", Bangalore. Offers professional Eclipse Support and Training for various Eclipse based Frameworks including RCP, EMF, GEF, GMF. Contact us on annamalai@ancitconsulting.com to learn more about our services.