SETTING UP ECLIPSE

Eclipse is very useful for programming Python on Raspberry Pi:

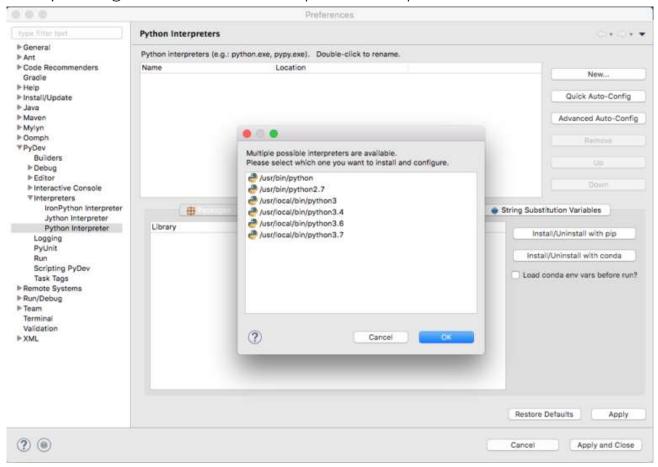
- It is fee of charge
- I comes with a remote access plug-in to edit, run and debug your code running on the Pi

Install necessary packages

- 1. Download Eclipse for your system
- 2. Choose "IDE for Java developers" during installation (we never use Java then but the IDE configuration comes close to what we need for Python)
- 3. Install PyDev: Eclipse menu / Help / Eclipse Market Place: Search for "PyDev" and install it
- 4. Install Remote System Explorer: Eclipse menu / Help / Eclipse Market Place: Search for "Remote" and install it
- 5. <u>Download</u> and install the latest version of Python on your computer

Setting up Eclipse IDE to work with Python

In Eclipse navigate to Preferences and open the "Interpreter section":



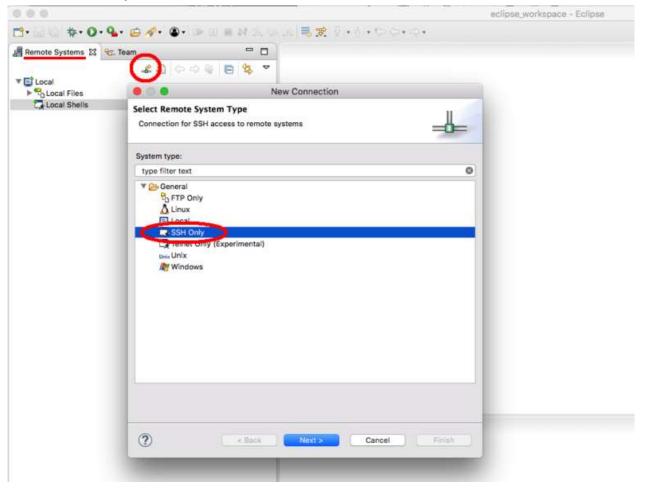
Select Advanced Auto-Config and select the latest version installed (in this picture I will install Python3.7). Apply and Close the dialog when import is finished.

Create a new project

- 1. In the Eclipse menu select File / New / Project and select PyDev / PyDev Project
- 2. Give it a name

Get access to Raspberry Pi

 In the Eclipse menu select Window / Perspective / Open Perspective / Remote System Explorer 2. Select "SSH only" as new connection



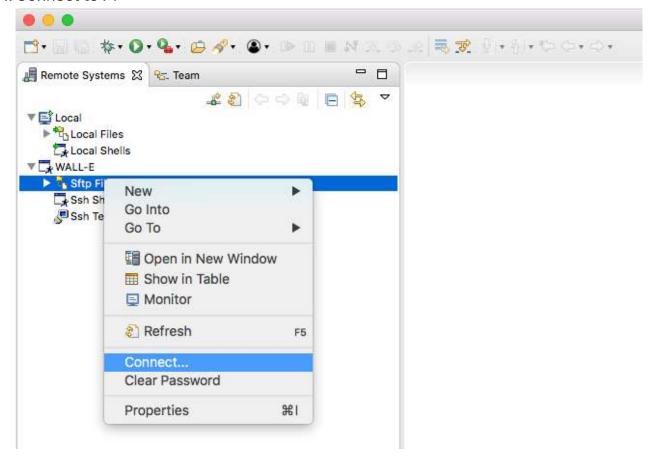
3. Define connection information

Set host name to "192.168.0.3

Set connection name to 'WALL-E'

Set description to 'Raspberry Pi of WALL-E'

4. Connect to Pi



Enter User ID: pi

Enter Password: our chosen password for the Raspberry Pi

5. Open remote shell

Navigate to Window / Show View / Other / Remote Systems / Remote Shell

Our first test script

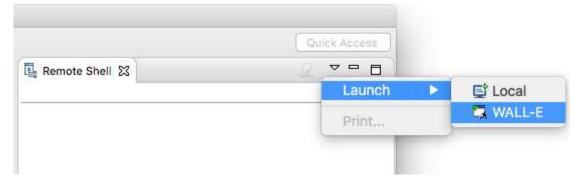
- 1. Create a directory for our python project

 Navigate to "My Home" and create New / Folder in '/home/pi' called 'wall-e'
- Create a Python script
 Navigate to My Home / wall-e and create New / File called 'main.py'
 Add the following lines of code:

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
#python3 /home/pi/wall-e/main.py
import datetime, time
print("WALL-E started at %s"%(datetime.datetime.now().strftime("%Y-%m-%d %H:%M
```

3. Open the shell

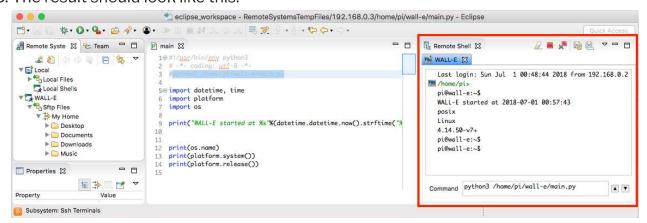
As we are on the Pi, we can not use the run button of clips as it would executed locally. To avoid this we open a shell instance at the Pi:



4. Launch script

Command: python3 /home/pi/wall-e/main.py

5. The result should look like this:





You did it! Your Pi is now ready to be programmed in Python.