Notes

This tutorial will help you to setup python and install jupyter notebook (Web based application to create and share document that contains live code or explanatory texts).

Please follow steps with respect to your operating system.

Queries:
In case you find any difficulty please reach me out at
muhammad.sohaib@persontyle.com or skype (muhammad.sohaib@outlook.com)

$ sign shows that the line contains a terminal code.

Virtual Environments: We make virtual environments just to keep dependencies required by different projects in separate places by creating virtual python environments for them.

Pip is a package management system used to install and manage software packages written in Python.

Operating System: Ubuntu 14.04

Open terminal

$ sudo apt-get install git
$ sudo apt-get install python-setuptools
$ sudo easy_install virtualenv

Create a new folder with name virtual_environments in documents folder and go the folder directory

$ cd Documents/virtual_environments
$ virtualenv --no-site-packages dih_learn

Just make sure it installs setuptools, pip, wheel. "dih_learn" is the name of the virtual environment you just created.

$ source django_nonrel/bin/activate

Install the packages

$ pip install ipython notebook[all]

Make sure all the related packages have been installed successfully. If you find any error while installation of package google it and install the dependencies required for the installation, most likely the dependencies would be the packages of ubuntu.

You can check the installed version using the command below:

$ pip freeze

It displays all the package in the virtual environment

How to open Jupyter Notebook

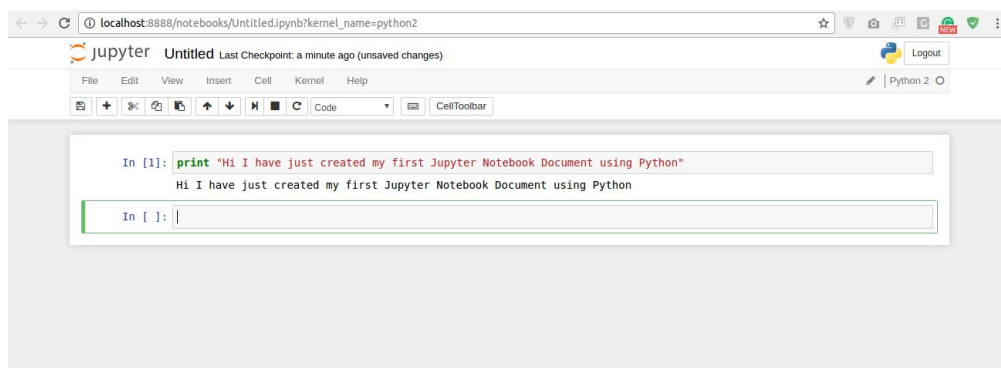Create a directory for your codes and write this command in terminal:

$ ipython notebook

It will open Jupyter notebook in your default browser if not open any browser and hit the url:
http://localhost:8888/tree

Creating your first Document

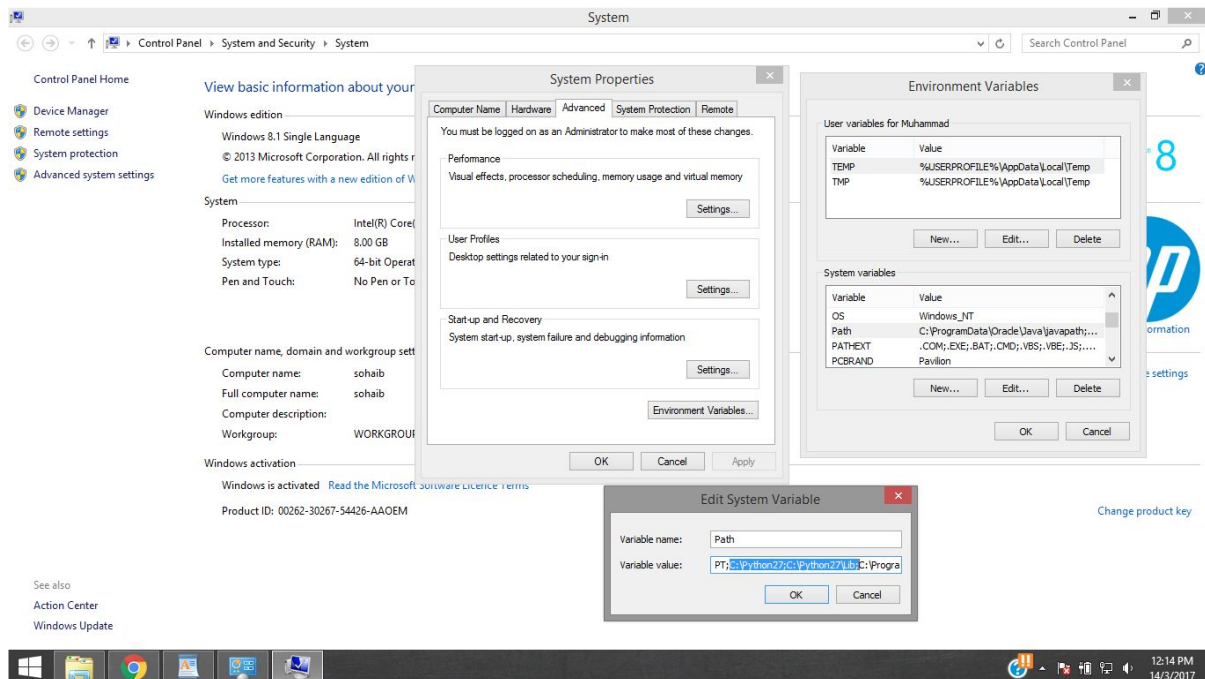Create your first document by clicking python 2 in the dropdown.

For deactivating the virtual environment use this command:

$ deactivate

Operating System: Windows

Steps:

1. Download python and install it from [Python 2.7](#)
2. Go to my computer and set the environment for the PATH variable in System variables and add **C:\Python27;C:\Python27\Lib;C:\Python27\Scripts**

3. Download get_pip.py file from attachment and save it to desktop or any location you prefer.
4. Open cmd and write **python /location/of/get-pip.py**

5. Write **pip install virtualenv** in cmd. It will install virtual environment.
6. Create a new folder in documents with name virtual_environments and write:- **virtualenv dih_learn** in cmd. "Dih_learn" is the name of the environment you are creating.
7. Write **dih_learn\Scripts\activate** to activate the environment.
8. Make sure you have Visual C++ 9.0 if you don't have download it from here Visual C++ 9.0.
9. Install Jupyter Notebook with command **pip install ipython notebook[all]** make sure all related packages have been installed successfully.
10. Test your jupyter notebook just create a directory where you want to put your codes and go into the directory from cmd and write **ipython notebook**. It will open in your default browser if not then open your browser and hit url http://localhost:8888/tree

11. Create your first document by clicking python 2 in the dropdown.
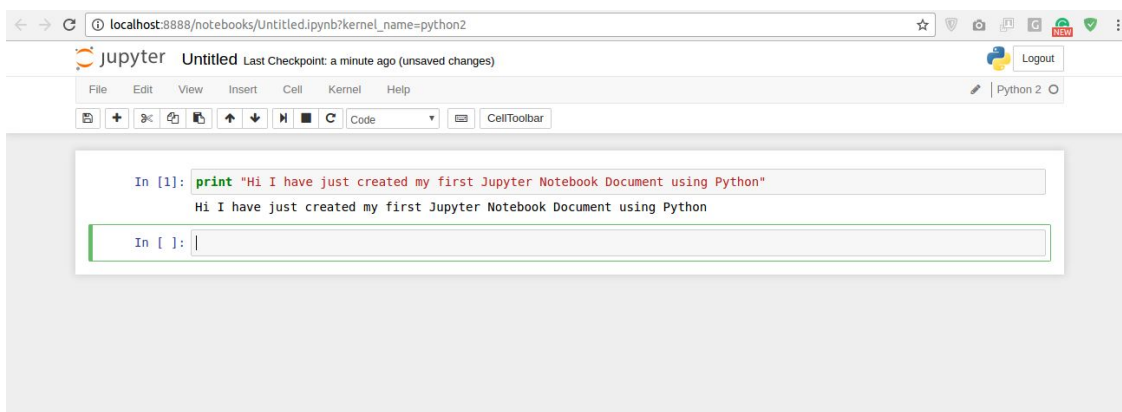
12. If you want to deactivate your environment write **deactivate** in cmd.

All set here you go.