# Jupyter Notebooks:

* Open command prompt.
* Change directory to where you want to open a notebook. (cd Downloads)
* Go back to previous directory. (cd ..)
* Show all directories. (dir)
* Clear everything on cmd prompt. (cls)
* Create your own notebook name ‘My Notebook’ on the master folder.
* “Alt + Enter” makes new cell on your notebook.
* “Shift + Enter” runs your notebook
* “ctrl + s” to save notebook to some point.
* To download the notebook: File->Download as
* If you are in a while loop it will show In [#]. You can restart the kernel by going to “Kernel -> restart kernel”
* Having problem with anything just go to Help and then Notebook.
* Go to “Help->Keyboard shortcuts” and all the available keyboard shortcuts are noted there.
* Markdown cell: where you keep a short note in normal markdown text with your code cell. Go to selections and change “code” to “markdown”. Then press shift + enter and it should look as a basic text to type notes for yourself.
* You can use various formatting to your markdown text. For example using hash makes before text makes it as Heading.

# Anaconda Virtual Environments:

* Virtual Environments allow you to set up virtual installations of Python and libraries on your computer.
* You can have multiple versions of Python or libraries and easily activate or deactivate these environments.
* Sometimes you’ll want to program in different versions of a library.
* For example:
  + You develop a program with Scikit-Learn 0.17
  + Scikit-Learn 0.18 is released.
  + You want to explore 0.18 but don’t want your old code to break when you upgare. This is where you want to create a virtual environment for that specific library.
* Sometimes you’ll need to make sure your library installations are in the correct location.
* For example:
  + You want multiple versions of Python on your computer.
  + With virtual environment you can do that as one environment with Py 2.7 and another with Py 3.5
* There is a virtualenv library for normal Python distributions that has lot of the capabilities. This virtualenv library allows you to create virtual environments and it’s a virtual environment manager.
* Anaconda already has built-in virtual environment manager that makes- the whole process of creating a virtual environment, activating and deactivating them- really easy.
* Use the following link: <https://conda.io/projects/conda/en/latest/user-guide/tasks/manage-environments.html>
* Go to link and click on to “Create an environment” under “Managing environments”. There basic instructions are available to create an environment.
* To create a new environment type: conda create --name myenv
* To create an environment with a specific version of Python: conda create -n myenv python=3.6
* To create an environment with a specific package:

conda create -n myenv scipy

Or,

conda create -n myenv python

conda install -n myenv scipy

* To create an environment with a specific version of a package:

conda create -n myenv scipy=0.15.0

Or,

conda create -n myenv python

conda install -n myenv scipy=0.15.0

* To activate a virtual environment type: activate environment\_name
* To deactivate a virtual environment type: deactivate environment\_name
* Look into the documentation link for anything. Everything is listed there in detail.