

This is python tutorial

Jupyter Shortcuts

- Esc --> To make cell blue,
- y --> To make cell codeable
- m --> To make cell markdown
- $a + b = c$ --> To write arithmetic formulas (must start and end with \$ sign)
- use ipython as a calculator, 1) open anaconda editor 2) type "ipython"

This is out first program in python . Just starts Here

```
print ("Hellow World")
```

```
a = b + c
```

Data Types

Mutable Data Types

Objects whose value can change are said to be mutable

- List
- Dictionary
- Set

Immuable Data Types

objects whose value is unchangeable once they are created are called immutable

- Numbers (integer, bool, float, complex)
- String
- Tuple

Variables

```
In [8]: a = 5
        b = 23.6
        print (a)
        print (b)
        # %whos
        print (type(b))
        x,y,z = 2, 3.9, "My Name is Muhammad Iqbal"
        %whos
        del z
        print(z)
```

```
5
23.6
<class 'float'>
Variable    Type      Data/Info
-----
a           int       5
b           float     23.6
x           int       2
y           float     3.9
z           str       My Name is Muhammad Iqbal
```

```
-----
NameError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_13908\2791978618.py in <module>
      8 get_ipython().run_line_magic('whos', '')
      9 del z
--> 10 print(z)

NameError: name 'z' is not defined
```