Variables

Note:

- Variables are used to store the data
- The Data can be change
- These Variables can be use to manipulate python code

```
In [1]: number=100
        # 100 is stored in a variable called as number
        number
Out[1]: 100
In [2]: NUMBER=200
        NUMBER
Out[2]: 200
In [3]: number, NUMBER
Out[3]: (100, 200)
In [4]: NUMber=300
        NUMber
Out[4]: 300
In [5]: number, NUMBER, NUMber
Out[5]: (100, 200, 300)
In [6]: number123=400
        number123
Out[6]: 400
In [7]: 123number=500
        123number
         Cell In[7], line 1
           123number=500
       SyntaxError: invalid decimal literal
In [9]: # type first two letter enter tab
        number
        number123
Out[9]: 400
```

- Variables generally in black color
- Green color should not be a variables
- numbers as suffix can work
- numbers as prefix fail

In [14]: **if=1000**

```
In [10]: number$=600
         number$
          Cell In[10], line 1
            number$=600
        SyntaxError: invalid syntax
           • spl charcaters does not allowed
In [11]: number one=200
         number one
          Cell In[11], line 1
          number one=200
        SyntaxError: invalid syntax
In [12]: number_one=300
         number_one
Out[12]: 300
           • underscore can use as variable
In [ ]: numberone
         number_one
In [13]: _=1000
Out[13]: 1000
In [ ]: number=100 # w
         NUMBER=200 # w
         NUMber=300 # w
         number123=400 # w
         123number=500 # f
         number%=600 # f
         number one=700 # f
         number_one=800 # w
         _=900# w
```

```
Cell In[14], line 1
    if=1000
    SyntaxError: invalid syntax

In []: for while True False
    keywords can not use as Varibales

In []:
```