Variables

- Variables is used to store a value
- Variables can change their values
- In python latest value will be consider
- Python is a step by step process

In [4]:
```
num=10
num

# comment
# value 10 stored in variable called 'num'
```

Out[4]: 10

In [2]:
```
NUM=100
NUM
```

Out[2]: 100

In [5]:
```
# whenever you run
# new cell will be created

# shift+enter
```

In [6]:
```
number=100
```

In [7]:
```
number
```

Out[7]: 100

In [ ]:
```
# num=10
# NUM=100
```

In [9]:
```
NUMber=200
NUMber
```

Out[9]: 200

In [10]:
```
number123=300
number123
```

Out[10]: 300

In [11]:
```
123number=400
123number
```

```
  Cell In[11], line 1
    123number=400
      ^
SyntaxError: invalid decimal literal
```

In [13]:
```
omkar=500
```

In [14]:
```
omkar
```

Out[14]:
```
500
```

In [15]:
```
number@one=1
number@one
```

```
  Cell In[15], line 1
    number@one=1
    ^
SyntaxError: cannot assign to expression here. Maybe you meant '==' instead of
'='?
```

In [16]:
```
number one=300
number one
```

```
  Cell In[16], line 1
    number one=300
           ^
SyntaxError: invalid syntax
```

In [17]:
```
number_one=500
number_one
```

Out[17]:
```
500
```

In [18]:
```
_=800
_
```

Out[18]:
```
800
```

In [19]:
```
if=700
if
```

```
  Cell In[19], line 1
    if=700
      ^
SyntaxError: invalid syntax
```

In [20]:
```
while = 800
while
```

```
  Cell In[20], line 1
    while = 800
          ^
SyntaxError: invalid syntax
```

In [21]:
```
o_m_k_A_r=1000
o_m_k_A_r
```

Out[21]:
```
1000
```

- variables are case sensitive
- variables can be capital and small letters
- variables does not allow spl charcters except underscore
- only underscore _ can be a varaible
- variables does not contain space between the words
- variables can not contain numbers as prefix ex: 123num
- variables can have numbers as suffix ex: num123
- varaibles does not contain any keywords

In [ ]:
```
- variables are case sensitive
```