variables & operators

In [1]:
```
a=1
print(a)
```

```
1
```

In [2]:
```
b=2
c=2.3
print(b,c)
```

```
2 2.3
```

In [3]:
```
x="apple"
x
```

Out[3]:
```
'apple'
```

In [4]:
```
student=23
print(student)
```

```
23
```

In [6]:
```
students123=25
print(students123)
```

```
25
```

In [7]:
```
_a=3
print(_a)
```

```
3
```

many values to multiple variables

In [9]:
```
x,y,z="orange","banana","cheery"
print(x,y,z)
```

```
orange banana cheery
```

In [10]:
```
x=y=z="orange"
```

In [11]:
```
x
y
z
```

Out[11]:
```
'orange'
```

python output variables

In [12]:
```
x="python"
y="is"
z="amezing"
print(x,y,z)
```

```
python is amezing
```

Datatypes

In [15]:
```
x=2
print(x)
print(type(x))
```

```
2
<class 'int'>
```

In [17]:
```
y=4.5
print(y)
print(type(y))
```

```
4.5
<class 'float'>
```

In [18]:
```
z=2+5j
print(z)
print(type(z))
```

```
(2+5j)
<class 'complex'>
```

In [19]:
```
a="this is the day 2 of pyhton class"
print(a)
```

```
this is the day 2 of pyhton class
```

In [20]:
```
print(type(a))
```

```
<class 'str'>
```

In [21]:
```
b=[1,2,3,4,5,6]
print(b)
print(type(b))
```

```
[1, 2, 3, 4, 5, 6]
<class 'list'>
```

In [22]:
```
%whos
```

```
Variable      Type       Data/Info
---------------------------------
a             str        this is the day 2 of pyhton class
b             list       n=6
c             float      2.3
student       int        23
students123   int        25
x             int        2
y             float      4.5
z             complex    (2+5j)
```

operators

In [23]:
```
a=5
b=3
print(a+b)
```

```
8
```

In [24]:
```
a=5
b=2.3
print(a+b)
```

```
7.3
```

In [25]:
```
a=5+3j
b=4
print(a+b)
```

```
(9+3j)
```

In [27]:
```
a="helo"
b="student"
print(a +" " + b)
```

```
helo student
```

subtraction

In [28]:
```
a=15
b=6
print(a-b)
```

```
9
```

In [29]:
```
a=5+6j
b=3
print(a+b)
```

```
(8+6j)
```

In [30]:
```
a="hello"
b="student"
```

In [31]:
```
print(a-b)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [31], in <cell line: 1>()
----> 1 print(a-b)

TypeError: unsupported operand type(s) for -: 'str' and 'str'
```

multiplicaion

In [32]:
```
a=15
b=56
print(a*b)
```

```
840
```

In [33]:
```
a=5.680
b=82.55632
print(a*b)
```

```
468.91989759999996
```

division

In [34]:
```
a=10
b=5
print(a/b)
```

```
2.0
```

modulous

In [35]:
```
a=19
b=3
print(a%b)
```

```
1
```

In [36]:
```
a=12
b=4
print(a%b)
```

```
0
```

exponent

In [37]:
```
a=41256789
print(a**55)
```

```
71162028433520217717099884851404495326786614148274137562533191244754226421
07292219322939303540629004749032200612748617052882046041467189707418474691
76382368106637808729338711997710530290748710720466450886033004202782724743
73361352870797685329285463690039885441075398107839063255747535400015566353
54964788276741418271758601091202131811338667992828922731538006428614545053
99580691651936384162449114346184958332001800499 49
```

In [38]:
```
a=((859*78))+(78.256/89)+(856**67)+(145698-7526)
print(a)
```

```
2.990489165920469e+196
```

boolean

In [39]:
```
a=True
b=False
print(a and b)
```

```
False
```

In [40]:
```
a=True
b=True
print(a or b)
```

```
True
```

In [41]:
```
a=True
b=False
print(not(b))
```

```
True
```

In [42]:
```
a=((8922*2852)+(7821*222)-(25566*256)+(8281/82))
```

In [43]:
```
a
```

Out[43]:
```
20637010.98780488
```

In [ ]:
```

```