

# Object Oriented Programming: (OOP concept)

>>> a = 10 (int)  
Assignment

Class  
a = 10 → (int)

a ⇒ 10

(=)

properties

Methods

Values  
say Apple

Red in colour      Spherical in shape

Eat Apple

eatMe()

Class

Object

Properties      Methods

We saw two classes.

$Z = 2 + 2i$

$\bar{Z} = \boxed{2 - 2i}$

$a = 10 + \underline{0i}$  Human

Two Hands

Two Eyes

pick()

see()

(i) integer

(ii) Complex

a = 10 ⇒   
→ a.real  
→ a.imag  
→ a.num  
→ a.conjugate

$C = 10 + 5j$

C.conjugate()   
→ c.real  
→ c.imag  
→ c.conju  
Method

## Jupyter Notebook Tip:

Press Shift + Tab when having cursor on a method or object

```
In [ ]: myList.append
```

Signature: myList.append(object, /)

Docstring: Append object to the end of the list.

Type: builtin\_function\_or\_method

⇒ All the iterables support slicing.

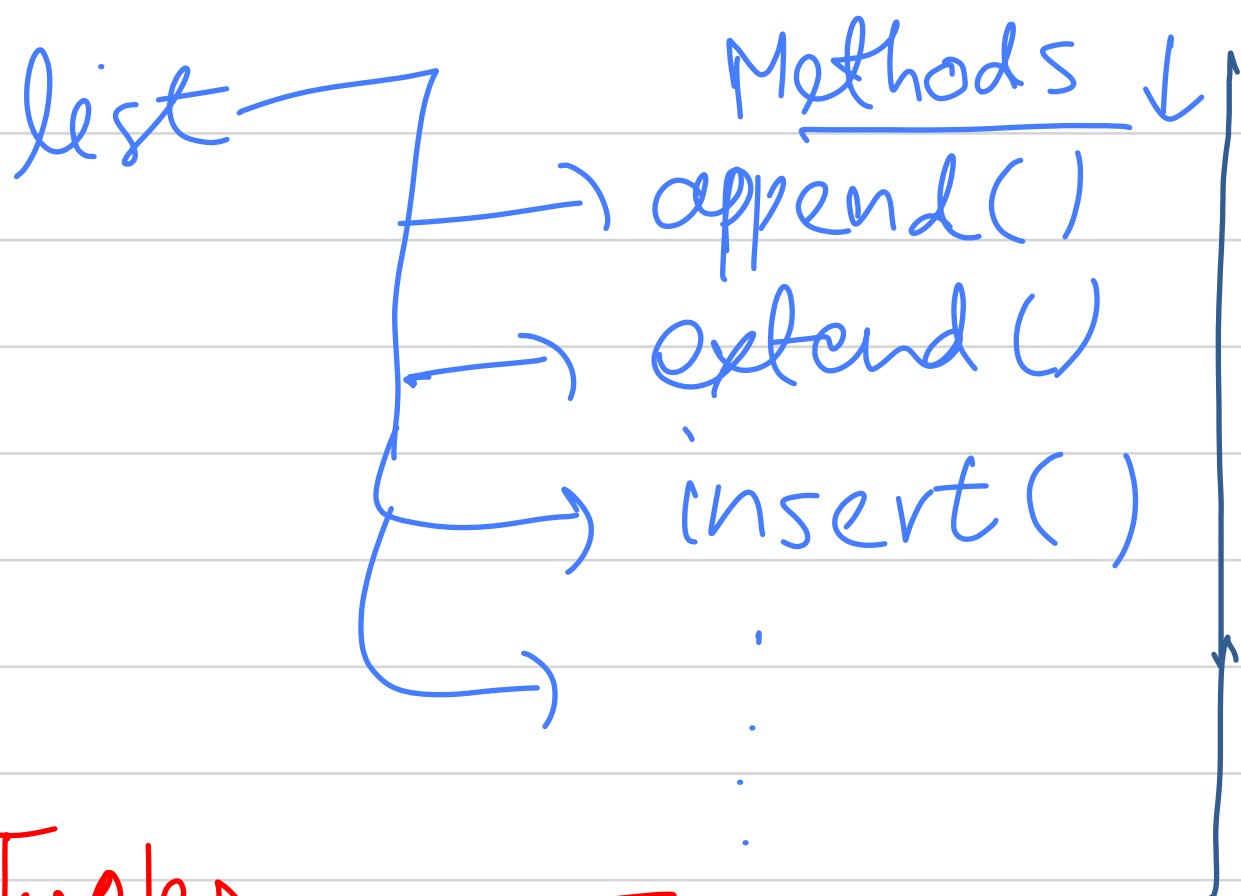
a = 'string' range(0, 10)

a[0:3] → 'str' → 0-9

↳ Slicing ⇒ a[startIndex : End Index]

a[.: End Index]

↳ takes from 0 index  
a[start:.]



Method  
Always called as  
object.method()

Functions  
function(\*args)

Tuples  
(immutable)

- index()
- count()

All iterables support len()  
function

⇒ String Concatenation is

'str' + 'ing'

⇒ 'string' ⇒ string concat.

~~string - ing~~

Not  
Valid