

Agenda

- Special methods (OOps)

- Special functions

- lambda, map, filter, zip
- list & dict comp

--init-- → run when we create an object

Dunder methods

property decorator

→ --init-- → initialise the object variables (attributes)

→ --str-- → Description of the class, intended for user

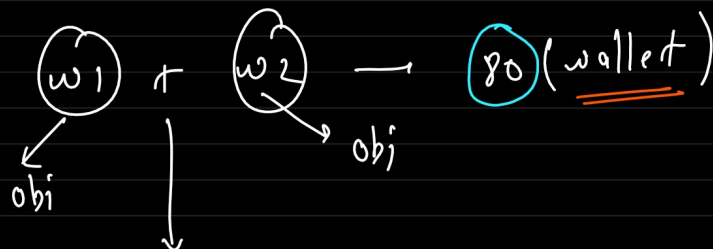
public	→	
private	→	-- → dev
protected	→	-

← Reference

→ --repr-- → Description, intended for developer

A → wallet(50) → w1

B → wallet(30) → w2



--add--

w1.--add-- () → 80 (wallet)

self.cash & other.cash

obj = w1 + w2

obj.cash → 80

w1. --add-- (other) !
self ← wallet (self.cash + other.cash) → 50
return wallet (80)
→ creating a new object with self.cash = 80
w2.cash → 30

w1 + w2 → ①
w2 + w1 → ②
w2. --add-- ()

w1.cash = 30

→ 70.3 → float ✓

w2.cash = 40.3

70 → int

int, str →

1 + 1 → 1 (int)

1 + 1.3 → 2.3 (float)

float (— + —)
int (— + —)

0 1 2 3 4 5
a = [1, 2, 3, 4, 8, 100]

b = 4

a[3] → 4

b[4] → X

↓
index → list

class A:

def __init__ (self):

def _____

def _____

a-1 = A()

a[0] →

class Account:

```
def __init__(self, balance):
    self.balance = balance
```

```
def set_balance(value):
    self.balance = value
```

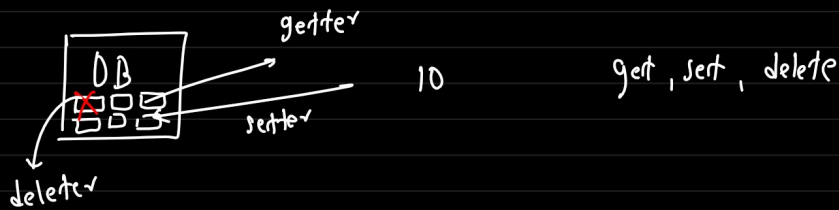
a = Account(1000)

self.balance = 1000

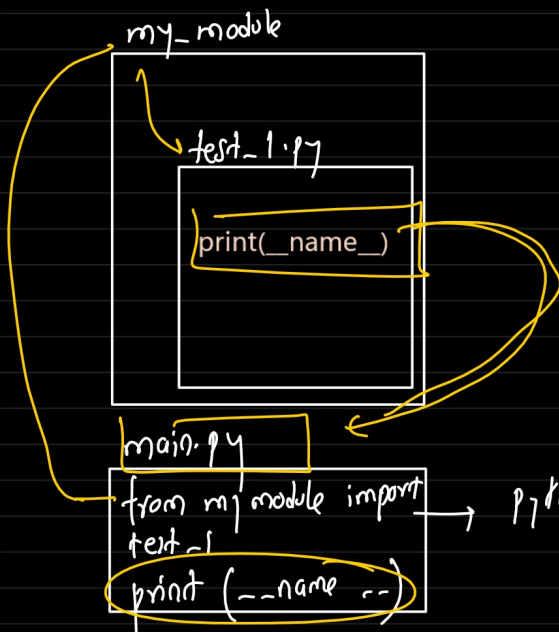
a.set_balance(2000)

self.balance = 2000

a.balance = 3000
security issue



CRUD → Create
→ Read → get
→ Update → set
→ Delete → delete



python → go and find module
→ check test_1 → if present
def class code → execute

1) python main.py → test_1 → print(__name__)

2) print(__name__)

__name__ is a special variable, it has its execution file name in it.

● `--name--` is present in the same file you are executing
from `--name--` \Rightarrow `--main--`

● `--name--` is not present in the current file you are executing
`--name--` \rightarrow that file name

Special functions

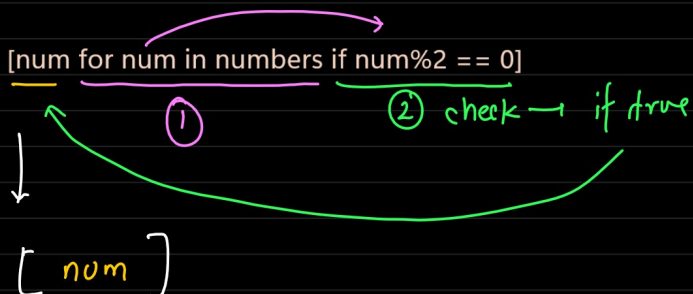
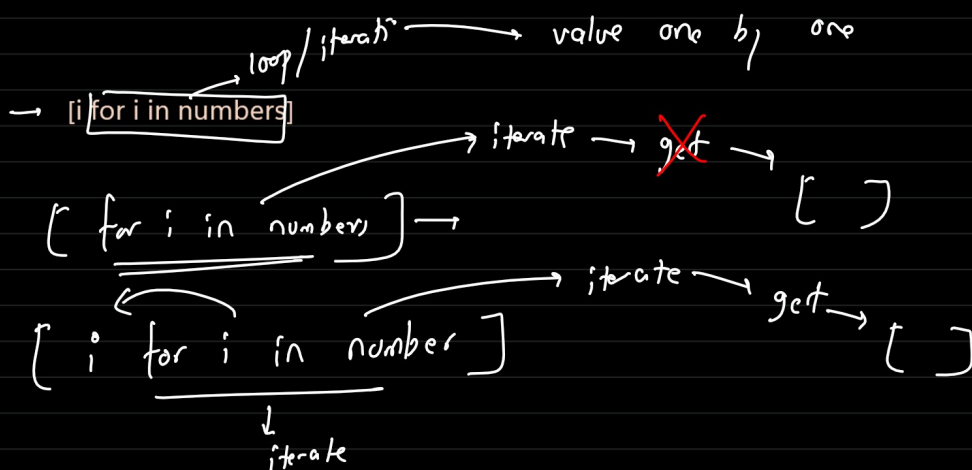
```
def add(a, b):  
    return a + b
```

`add(1, 2) \rightarrow 3`

lambda function:
(one-line function)

`add = lambda a, b: a + b`

`add(1, 2) \rightarrow 3`



Python Completed