

Agenda

- Special methods (OOPs) → Dunder methods
- Special functions → property decorator
- lambda, map, filter, zip
list & dict comp

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

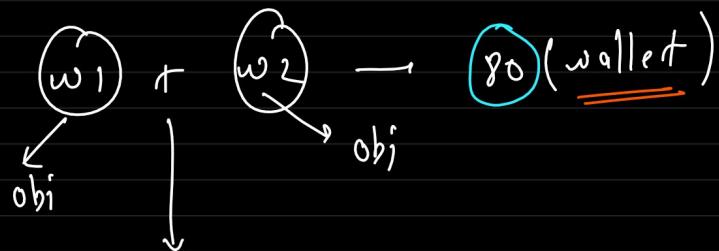
→ --init-- → initialise the object variables (attributes)

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

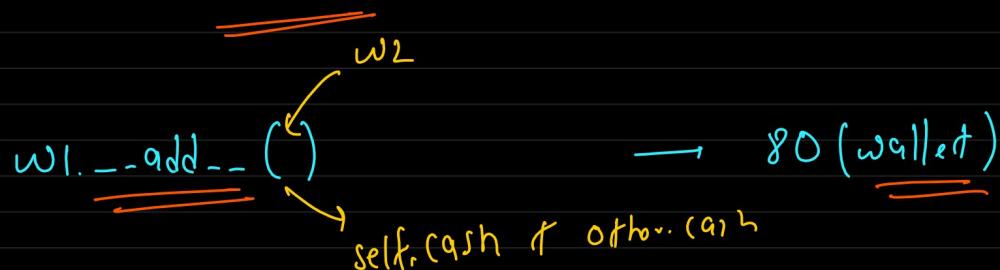
public →	Reference
private → _ _ → dev	
protected → _	

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

A → wallet(50) → w1
 B → wallet(30) → w2



--add--



$\text{obj} = \text{w1} + \text{w2}$
 $\underline{\text{obj}}.(\alpha)h \rightarrow 80$

w1. $\underline{\underline{\text{add}}} \text{ (other)}$!
 self
 wallet (self.cash + other.cash) $\rightarrow 30$
 return wallet (80)
 $\underline{\underline{\text{creating}}}$ a new object
 with self. cash = $\underline{\underline{80}}$

$w1 + w2 \rightarrow 1$
 $w2 + w1 \rightarrow 2$
 $w2. \underline{\underline{\text{add}}} \text{ ()}$

$w1. (\alpha)h = 30 \rightarrow 70.3 \rightarrow \text{float} \checkmark$
 $w2. (\alpha)h = 40.3 \rightarrow 70 \rightarrow \text{int}$

int, str \rightarrow

$1 +) \rightarrow 1 \text{ (int}$
 $1 + 1.3 \rightarrow 2.3 \text{ (float)}$
 $\text{float} \text{ (} - + - \text{)}$
 $\text{int} \text{ (} - + - \text{)}$

$q = [1, 2, 3, 4, 8, 100] \quad b = 9$
 $q[3] \rightarrow 4$
 \downarrow
 $\text{index} \rightarrow \text{int}$
 $b[4] \rightarrow X$

$(\text{class}) \quad \text{B} :$
 $\underline{\underline{\text{def}} \text{ __init__ (self)}}.$

$\underline{\underline{\text{def}} \text{ __}}$
 $\underline{\underline{\text{def}} \text{ __ :}}$

class Account:

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

```
    self.balance = balance
```

```
def set_balance(value):
```

```
    self.balance = value
```

q = Account(1000)

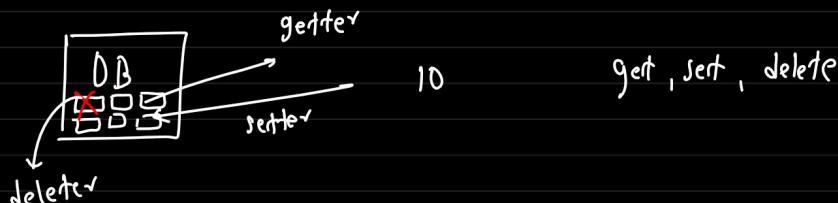
| self.balance
| = 1000

a.set_balance(2000)

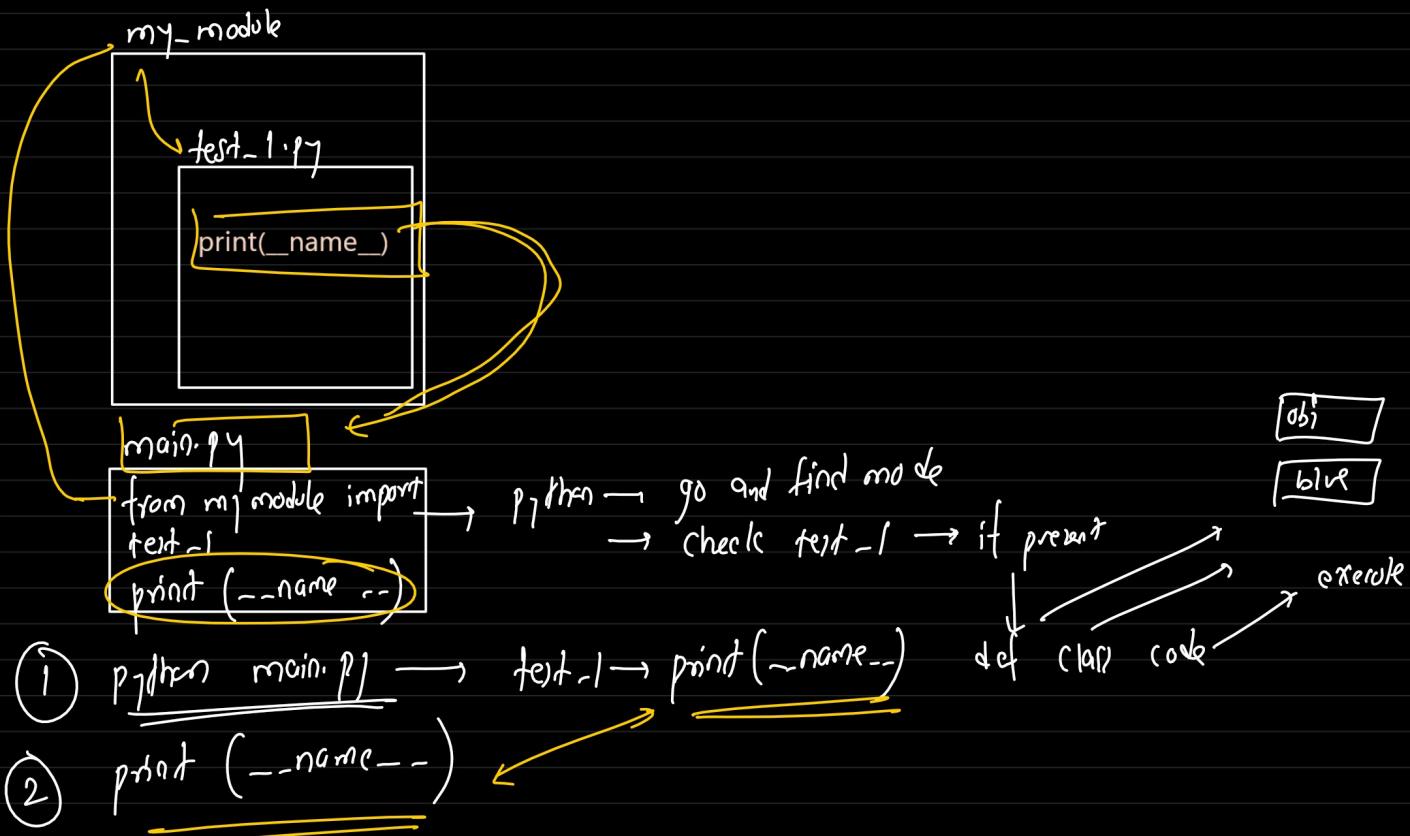
| self.balance
| = 2000

q.balance = 3000

security issue



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



__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

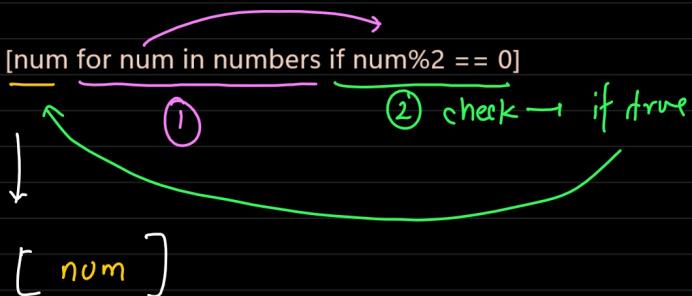
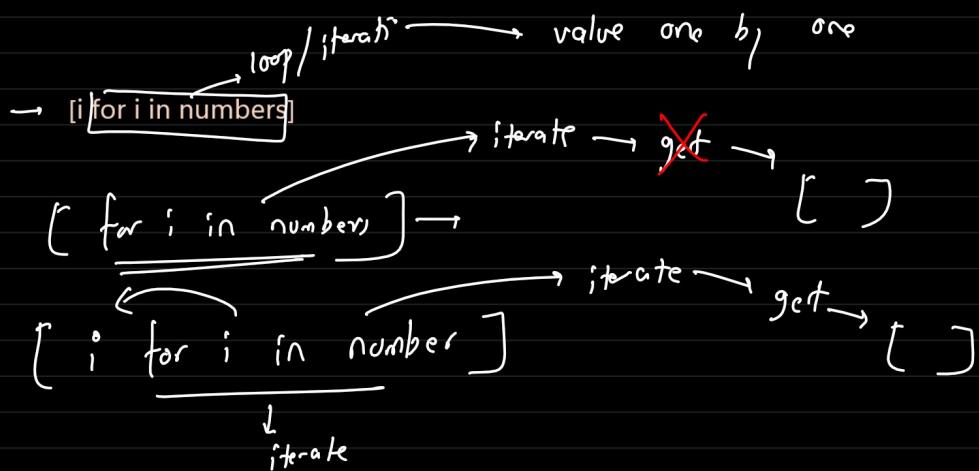
`def add(a, b):
 return a + b`

`add(1, 2) \rightarrow 3`

lambda function : (one-line function)

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

`add(1, 2) \rightarrow 3`



Python Completed