

Full stack web development using python

Classes and Objects



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Agenda

- ① Syntax of Class
- ② Types of objects
- ③ Creating instance object
- ④ Instance object vs class object
- ⑤ objects are initially empty

Syntax of Class

class ClassName :

variables

functions

class definition must be executed before
its use.

Objects

Three types of objects

- ① Instance Object
- ② class Object
- ③ function object

Creating instance Object

Class Test:

variables

functions

$x = 5$

$x \rightarrow \boxed{5}$

$y = 4.5$

$y \rightarrow \boxed{4.5}$

$t1 = \text{Test}()$

$t2 = \text{Test}()$

$t3 = \text{Test}()$

$t1 \rightarrow \boxed{}$

$t2 \rightarrow \boxed{}$

$t3 \rightarrow \boxed{}$

Instance Object vs Class Object

Class Test:

variables

functions

Test
□ →



class
object

Note: class object is one for each class.

--->>> Instance object may be 0 or more.

t1 = Test()

t2 = Test()

t3 = Test()

t1
□ →



t2
□ →



t3
□ →



instance
object

Test - class object

Test() - function call
to create instance
object

Instance Object is always empty at the beginning

