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Adv-Python

Class and Object

- > "class" is the keyword
- > With the help the class keyword we can define our data type
- > In the class we can declare variables called fields which are used to store the data
- ➤ In the class we can define functions called methods which are used to manipulate the values
- > "class" is a collection of states and behaviors state is nothing but fields which are used to hold the values. Behaviors are nothing but methods which are used to manipulate the values
- "class" a blue print of an "Object"
- > "class" a template
- > Not compulsory to define a class with both fields and methods

Syn:

class <ClassName>: Declare variables

Define functions
Methods

Fileds

Eg: class Sample: [empty class]

Pass

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Object

- > As we know that is class is a logical representation it doesn't occupy any space in the memory.
- > To allocate the memory for the fields and to access the members of the class then we need to define an object
- > An Object is the physical representation of the class
- An object is an "instance of a class"
- To Create an Object For the class

Syn:

<ref_variablename>=<className>([List of args])
S=Sample() [constructor]

- For the reference variable memory is allocated with in the stack.
- > Constructor is as an initializer method which is used for object instantiation and initialization
- Whenever the constructor is called an Object of the class is created "Heap"
- > For Every Object an unique identity is created called [hashcode] it will referred by the reference variable

Note: Based on your application requirements we can create N no.of. Objects for the class

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