What is an Object?

An object can be thought of as a Container, that has state(attributes/data) and behaviour(methods/functionality).

How to Create an Object?

Classes are blueprints/templates that are used to create the objects.

Classes are also called as types.

Objects created of a type/class are called instances of that type/class.

What are Classes?

Classes are themselves objects in python,they have:

1. Attributes - Eg : \_\_name\_\_

2. Behaviour - Eg : \_\_init\_\_

Classes are created from the 'type' metaclass.

Classes are callable ,Eg: MyClass() and return instance an instance of the class.

The type of the returned instance is MyClass.

Eg : my\_obj = MyClass()

type(my\_obj) -> MyClass -> (object,classes are objects)

isinstance(my\_obj, MyClass) -> True

Creating a Class

class MyClass:

pass

Here, python creates an object:

1. Called MyClass
2. Of Type ‘type’.