



OBJECTS

Python is an object-oriented programming language.

Almost everything in Python is an object with its properties and methods.

A Class is like an object constructor or a "blueprint" for creating objects

CREATING A CLASS-

To create a class, use the keyword class: class MyClass:

$$x = 5$$

CREATING A OBJECTS

Create an object named p1, and print the value of x:

p1 = MyClass() print(p1.x)

OBJECTS

To understand the meaning of classes we have to understand the built-in <u>__init__()</u> function.

All classes have a function called __init__(), which is always executed when the class is being initiated.

Use the __init__() function to assign values to object properties, or other operations that are necessary to do when the object is being created:

FOR A EXAMPLE

OBJECTS

The <u>str</u>() Function

The _str_() function controls what should be returned when the class object is represented as a string.

If the __str__() function is not set, the string representation of the object is returned:

FOR A EXAMPLE

```
class Person:
def __init__(self, name, age):
    self.name = name
    self.age = age

p1 = Person("John", 36)
```

print(p1)

OBJECTS METHODS

Objects can also contain methods. Methods in objects are functions that belong to the object.

Let us create a method in the Person class:

```
Example
Insert a function that prints a greeting, and execute it on the pl object:
class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age

    def myfunc(self):
        print("Hello my name is " + self.name)

Person("John", 36)

pintyfunc()
```