Constructors in python

A constructor is a special method in a class used to create and initialize an object of a class. There are different types of constructors. Constructor is invoked automatically when an object of a class is created.

A constructor is a unique that gets called automatically when an object is created of a class. The main purpose of a constructor is to initialize or assign values to the data members of that class. It cannot return any value other than none.

Syntax of Python Constructor:

```
    def __init__(self):
        print("Hello i am a program")
```

Init is one of the reserved functions in python. In Object Oriented Programming it is known as a constructor.

Types of Constructor in Python

1. Parameterized Constructor

2. Default Constructor

Parameterized Constructor in Python:

When the constructor accepts arguments along with self, it is known as parameterized constructor.

These arguments can be used inside the class to assign the values to the data members.

Example:

```
    class Programmer:
```

```
    def __init__(self,n,o):
        print("Hello i am a program")
        self.name=n
        self.occupation=o

    def info(self):
        print(f"My name is {self.name} and my occupation is {self.occupation}")


p2=Programmer("Munawar Johar","Python Developer")
p2.info()
```

Default Constructor in Python:

When the constructor does not accepts arguments from the object and has only one argument self in the constructor it is known as default constructor.

Example:

```
class Programmer:
     name="Munawar"
     occupation="Junior Developer"
    def __init__(self):
        print("Hello i am a program")

    def info(self):
        print(f"My name is {self.name} and my occupation is {self.occupation}")



p=Programmer();
p.info()
```

Source Code

```
class Programmer:
    # name="Munawar"
    # occupation="Junior Developer"
    def __init__(self,n,o):
```

```
        print("Hello i am a program")
        self.name=n
        self.occupation=o

    def info(self):
        print(f"My name is {self.name} and my occupation is {self.occupation}")



# p=Programmer();
# p.info()
# p=Programmer()
#passing the argument
p2=Programmer("Munawar Johar","Python Developer")
p2.info()
```

Thank You