



Here is the complete, beginner-to-advanced, interview-level guide to Python Classes and OOP concepts — explained clearly with examples.

PYTHON CLASSES — COMPLETE GUIDE (Beginner → Advanced)

1. What is a Class?

A class is a blueprint/template for creating objects (instances).

python

 Copy code

```
class Student:  
    pass
```

2. What is an Object?

An object is an instance of a class.

python

 Copy code

```
s1 = Student()  
s2 = Student()
```

3. The `__init__` Constructor

Runs automatically when an object is created.

python

 Copy code

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