

Python

# Memory management



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# Agenda

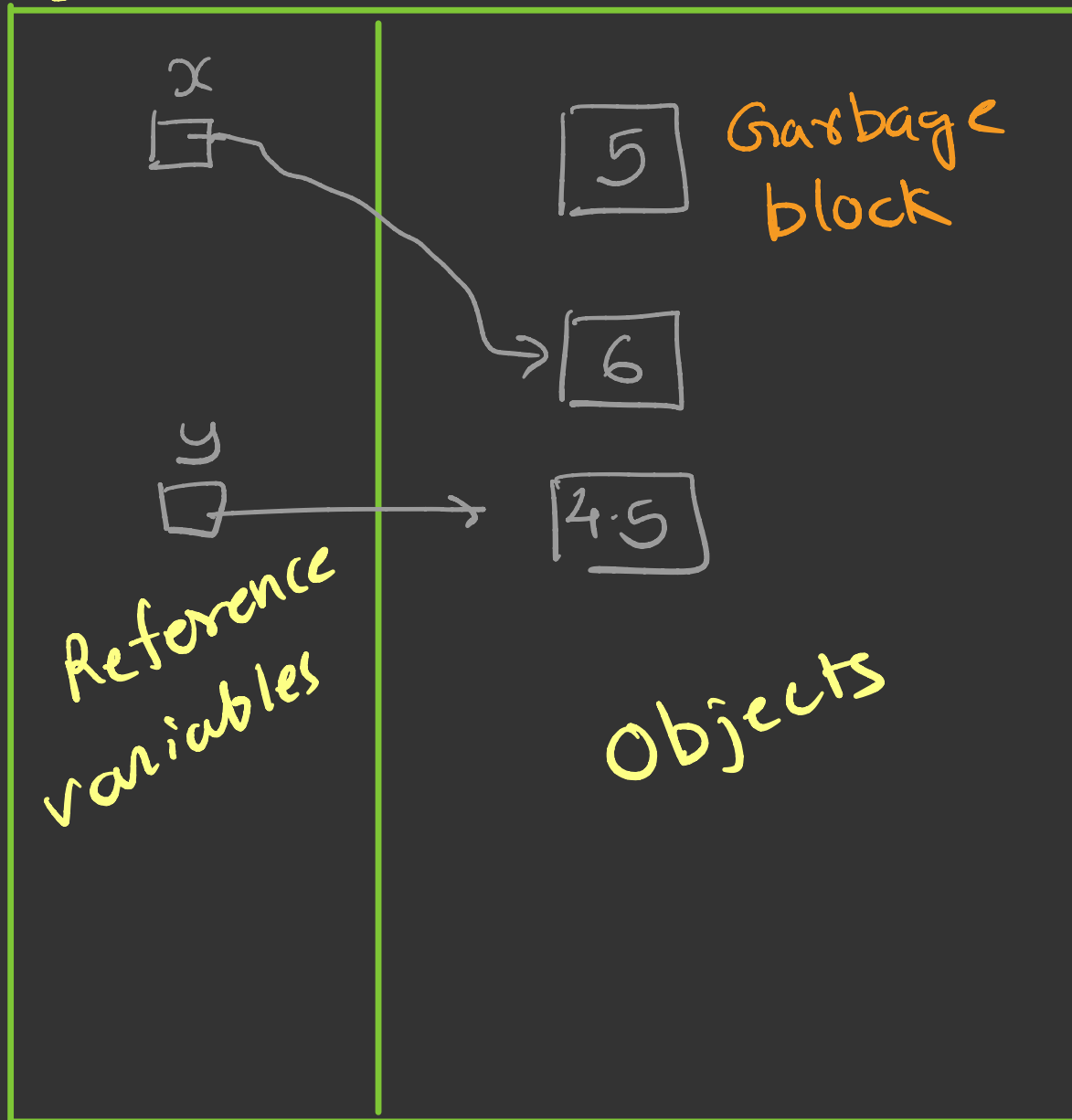
- ① Memory Management
- ② Garbage Collection
- ③ What is an object?
- ④ Name in namespace

# Memory Management

Namespace

Stack

Private Heap Space



$x = 5$

$x = 6$

$y = 4.5$

# Garbage Collection

It is a program, invoked by python itself, whenever required, whose job is to release memory of Garbage blocks (object which is not referenced by any name)

Automatic Memory Management

# What is an Object?

- Object is real world entity
- Object is an instance of a class
- object is a proper noun
- class is a common noun

Doctor → common noun class

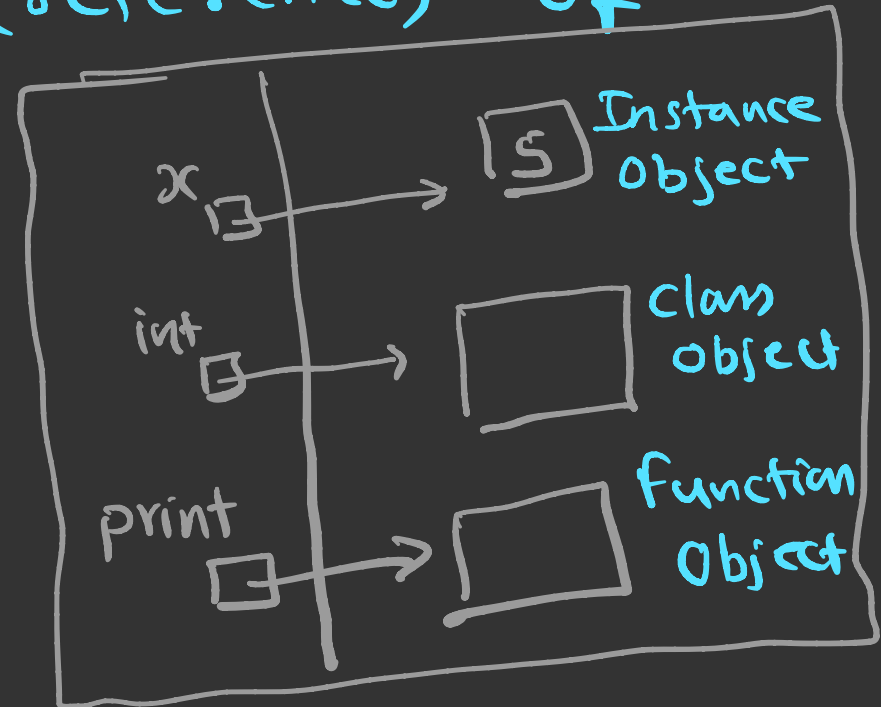
Dr. dixit → Proper noun object

Dr. Sharma → Proper noun object

# Name किसका होता है ?

Name in namespace is a variable which is used to contain id(reference) of

- ① Instance object
- ② Function object
- ③ class object



In python everything is an object.