Your Ultimate Guide To Landing Top AI roles

Namespace

→ A Python namespace is a mapping from names to objects

→ It works like a dictionary where keys are object names and values are reference to that object

→ Namespace organize variables and functions, allowing you to use multiple instances of the same name without conflict as long as they are in different namespaces.

→ we will learn about different types of namespaces in Python

1. Built-in Namespace
2. Global Namespace
3. Local Namespace
4. Enclosing Namespace or Nonlocal

→ These namespaces have different lifetimes

→ As Python executes a program, it creates namespaces as necessary and removes them when no longer needed.

→ global, local and non-local namespaces are dictionaries.

→ but builtin namespace isn't a dictionary but a module called builtins.

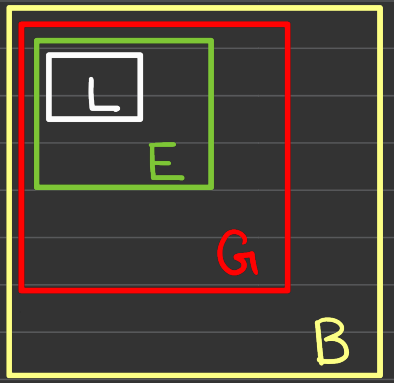
LEGB Rule

→ The concept of namespace and scope are closely related.

→ Namespaces are how Python applies the concept of scope to the name lookup process.

→ LEGB order

1. Local
2. Enclosing
3. Global
4. Built-in



Shadowing Built-in names

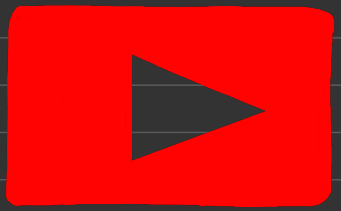
→ Shadowing or overriding names from the built-in namespace can be a common issue for beginners in Python.

Managing Namespace Dictionaries

→ Python provides two built-in functions, globals() and locals() that allow you to access the global and local namespace dict.

Modifying variables from a different Namespace

→ You can modify variables from different namespace using global and local statements.

Like  Subscribe