EASYLEARNING.GURU

Scope of Variables

Scope of a Variable

Namespace:

A place where names live . The location of a name's assignment in our source code determines the scope of the name's visibility to our code.

Rule of Scope of Variable :

- Names assigned inside a def can only be seen by the code within that def.
- Names assigned inside a def do not clash with variables outside the def, even if the same names are used elsewhere.

Types of Scope

There are three kinds of scope:

- *Global :* If a variable is assigned outside all defs , it is global to entire file.
- *Nonlocal :* If a variable is assigned in an enclosing def, it is *nonlocal* to nested functions.
- *Local :* If a variable is assigned inside a def, it is called local variable.

Name Space :LEGB Rule

Built – in(python)

Names preassigned in the built–in names module : open, range, SyntaxError….

Global (module)

Names assigned at the top level of a module file or declared global in a def within the file.

Enclosing function locals:

Names in the local scope of any and all enclosing functions from inner to outer.

Local (function):

Names assigned in any way within a function and not declared global in that function.

Hands-On