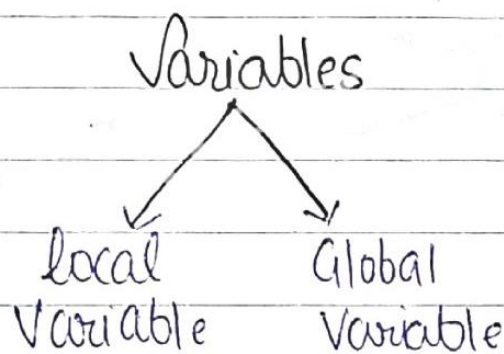# * Scope and Lifetime of Variables :-

. The scope of variable can either be local or global.

Scope refers to the visibility of variables and Lifetime refers to the duration for which the variable exits.

```
                    Variables
                    /        \
              local          Global
            Variable         Variable
```

1. Local Variables :-

- Local variables are variable that are declared inside a method.

- Local variables are assessable only within the declared method or block and can not assessable outside that method or block.

- It can be accessed only within that function.

Example of Local Variable :-

```
def fun():
    x = "jpwebdevelopers"          #x is local variable
    print(x)                        and cannot be
fun()    # calling fun.             assessable outside
                                    that function.
```

Output :- jpwebdevelopers

2. Global Variable :-

o If a variable is defined outside all the functions of a program then its scope is considered to be global.

o They are available through out the life time of a program.

o They can be accessed from any part of Program.
  Example of Global variable :-

```
x = "jpwebdevelopers"
def fun():
    print(x)    # calling variable 'x' inside func
fun()
print(x)    # calling variable 'x' outside func
```