The scope of a variable in python is that part of the code where it is visible

```
def f( x ):
    x = x + 1
    return x

number=2
z = f(number)
print(z)
```

```
def f( x ):
    number = x + 1
    return x

z = f(number)
print(z)
```

Global Scope

Local scope

Local Scope: A variable created inside a function belongs to the local scope of that function, and can only be used inside that function.

```
def func():
    name="python"
    print(name)
```

```
func()
print(name)
```

we define a variable 'name' in a function 'func'. So, 'name' is local to 'func'. Hence, we can read/write it in func, but not outside it.

Global Scope: A variable created in the main body of the Python code, the variable is visible anywhere in the program

```
def func():
    print(name)

name="Java"
func()
print(name)
```

we accessed the global Scope 'name' inside 'func', but it is bad practice to try to manipulate global values from inside local scopes.

Try to pass the variable as a parameter to the function.

Java

Java

```
def f(y):
    x = 1
    x += 1
    print(x)

x = 5
f(x)
print(x)
```

What are the results?