**1. What is the result of the code, and explain?**

X = 'iNeuron'

def func():

print(X)

func()

**Result:**

iNeuron

**Explanation:**

* The variable X is defined in the global scope.
* Inside the function func(), X is accessed from the global scope because there is no local variable X defined within the function.

**2. What is the result of the code, and explain?**

X = 'iNeuron'

def func():

X = 'NI!'

func()

print(X)

**Result:**

iNeuron

**3. What does this code print, and why?**

X = 'iNeuron'

def func():

X = 'NI'

print(X)

func()

print(X)

**Result:**

NI

iNeuron

**4. What output does this code produce? Why?**

X = 'iNeuron'

def func():

global X

X = 'NI'

func()

print(X)

**Result:**

NI

**5. What about this code—what’s the output, and why?**

X = 'iNeuron'

def func():

X = 'NI'

def nested():

print(X)

nested()

func()

print(X)

**Result:**

NI

iNeuron

**6. How about this code: what is its output in Python 3, and explain?**

def func():

X = 'NI'

def nested():

nonlocal X

X = 'Spam'

nested()

print(X)

func()

**Result:**

Spam