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

>>> X = 'iNeuron'

>>> def func():

print(X)

>>> func()

**Ans:**

iNeuron

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

>>> X = 'iNeuron'

>>> def func():

X = 'NI!'

>>> func()

**Ans:**

Nothing

>>> print(X)

**Ans:**

iNeuron

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

>>> X = 'iNeuron'

>>> def func():

X = 'NI'

print(X)

>>> func()

**Ans:**

NI

>>> print(X)

**Ans:**

iNeuron

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

>>> X = 'iNeuron'

>>> def func():

global X

X = 'NI'

>>> func()

**Ans:**

nothing

>>> print(X)

**Ans:**

NI

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

>>> X = 'iNeuron'

>>> def func():

X = 'NI'

def nested():

print(X)

nested()

>>> func()

**Ans:**

NI

>>> X

**Ans:**

'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()

**Ans:**

Spam