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

>>> X = 'iNeuron'

>>> def func():

print(X)

>>> func()

Ans:

iNeuron

The global variables are accessible in side the functions in python.

#But we can not access function variable out side function.

#Since x is global variable we are able to print it in side the function solution : 'iNeuron'

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

>>> X = 'iNeuron'

>>> def func():

X = 'NI!'

>>> func()

>>> print(X)

Ans:

iNeuron

The global variables are access in side the functions in python. But we can not access function variable out side function.

# Since x is golbal variable we are able to print it out side of the function solution = 'iNeuron'

3. What does this code print, and why?

>>> X = 'iNeuron'

>>> def func():

X = 'NI'

print(X)

>>> func()

>>> print(X)

Ans:

NI!

iNeuron

The global variables are access in side the functions in python. But we can not access function variable out side function.

# X is updated with 'NI' which is local to function and its immutable. its name space is with in the function solution = 'NI!', 'iNeuron'

4. What output does this code produce? Why?

>>> X = 'iNeuron'

>>> def func():

global X

X = 'NI'

>>> func()

>>> print(X)

Ans:

NI!

NI!

since the X in side function is made Global, it will be accesible out side of the function too.

#now X will have new value.

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

>>> X = 'iNeuron'

>>> def func():

X = 'NI'

def nested():

print(X)

nested()

>>> func()

>>> X

Ans:

iNeuron

'iNeuron'

the nested() function will print 'iNeuron', Then func() does not display anything,

# and x ='NI' is not accessible out

#side the function.

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

#Nonlocal variables are used in nested functions whose local scope is not defined.

#This means that the variable can be neither in the local nor the global scope. it print the updated value from nested

#function