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

&gt;&gt;&gt; X = &#39;iNeuron&#39;

&gt;&gt;&gt; def func():

print(X)

A:

inuron

function will print the data as per assigned global variable as it can be accessed within scope of the function.

&gt;&gt;&gt; func()

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

&gt;&gt;&gt; X = &#39;iNeuron&#39;

&gt;&gt;&gt; def func():

X = &#39;NI!&#39;

&gt;&gt;&gt; func()

&gt;&gt;&gt; print(X)

A:

inuron

function will print the data stored in the global variable

3. What does this code print, and why?

&gt;&gt;&gt; X = &#39;iNeuron&#39;

&gt;&gt;&gt; def func():

X = &#39;NI&#39;

print(X)

&gt;&gt;&gt; func()

&gt;&gt;&gt; print(X)

A:

NI

iNeuron

function will print the data stored in local variable while print statement outside function will print the data of global variable.

4. What output does this code produce? Why?

&gt;&gt;&gt; X = &#39;iNeuron&#39;

&gt;&gt;&gt; def func():

global X

X = &#39;NI&#39;

&gt;&gt;&gt; func()

&gt;&gt;&gt; print(X)

A:

iNeuron

function will assign the data for global variable and print will reassign the data as per the value of X.

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

&gt;&gt;&gt; X = &#39;iNeuron&#39;

&gt;&gt;&gt; def func():

X = &#39;NI&#39;

def nested():

print(X)

nested()

&gt;&gt;&gt; func()

&gt;&gt;&gt; X

iNeuron

'iNeuron'

Both the function will assign the data for X which is not declared within the scope of the function

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

&gt;&gt;&gt; def func():

X = &#39;NI&#39;

def nested():

nonlocal X

X = &#39;Spam&#39;

nested()

print(X)

&gt;&gt;&gt; func()

Spam

Nested has printed the data stored within non local variable, although as there is no return type mentioned . So func could not print anything .