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

>>> def func(a, b=6, c=8):

print(a, b, c)

>>> func(1, 2)

Answer:

This funtion is taking a positional argument and 2 keyward argument. When function call m=is made, parameter passed

# are a=1,b=2. When the function is executed , parameter c=8 will be taken by default as its a keyword argument.

# solution is = 1,2,8

2. What is the result of this code, and why?

>>> def func(a, b, c=5):

print(a, b, c)

>>> func(1, c=3, b=2)

Answer:

When we make function call, order will be positional argument and then keywords arguments. we can pass the keyword arguments in any order we want.

#Solution is 1,2,3

3. How about this code: what is its result, and why?

>>> def func(a, \*pargs):

print(a, pargs)

>>> func(1, 2, 3)

Answer:

The return type of \*args parameter is tuple, where as \*\*kargs will be dictionary

#solution is = 1,(2,3)

4. What does this code print, and why?

>>> def func(a, \*\*kargs):

print(a, kargs)

>>> func(a=1, c=3, b=2)

Answer:

The return type of \*\*kargs is dictionary

#solution is = 1,{'c':3,'b':2}

5. What gets printed by this, and explain?

>>> def func(a, b, c=8, d=5): print(a, b, c, d)

>>> func(1, \*(5, 6))

Answer:

# '\*' is the unpacking operator and are operators that unpack the values from iterable objects in Python. The single

# asterisk operator \* can be used on any iterable that Python provides, while the double asterisk operator \*\* can only

# be used on dictionaries. In the example the value \*(5,6) will be unpacked and will be assigned to b and c and passed

# as arguments, d =5 will taken by defaults are keyword arguments.

# Solution 1,5,6,5

6. what is the result of this, and explain?

>>> def func(a, b, c): a = 2; b[0] = 'x'; c['a'] = 'y'

>>> l=1; m=[1]; n={'a':0}

>>> func(l, m, n)

>>> l, m, n

Answer:

Here in the code, the list and dict are passed as argument, and those are mutable. Here the list l and parameter b point

#to the same list in the memory location where as dict n and c point to the same memory location. Any updates to this

#list will update in the memory location

#l = 1 , integer values, immutable, m is list, mutable, n is dict, mutable.

#output will be = 1,['x'],{'a':'y'}

(1, ['x'], {'a': 'y'})