1)what is the result of the code and why ?

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

Print(a,b,c)

>>>func(1,2)

ans : The result of the above code is 1 2 8. its because the function uses the default value of c ie 8 which is provided at the time of declaration

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

print(a,b,c)

func(1,2)

1 2 8

2)what is the result of the code and why ?

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

Print(a,b,c)

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

Ans: The result of the above code is 1 2 3. it is because the function will use default values only when a value for a argument is not provided and if argument name is mentioned while doing a function call, the order of arguments is also ignored by the python interpreter

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

print(a,b,c)

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

1 2 3

3)how about this code what is the result and why ?

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

Print(a,pargs)

>>>func(1,2,3)

Ans: The result of the code is 1 (2,3). \*pargs stands for variable length arguments. this format is used when we are not sure about the no of arguments to be passed to a function. all the values under this argument will be stored in a tuple.

def func(a, \*pargs):

print(a,pargs)

func(1,2,3)

1 (2, 3)

4)what does this code print and why?

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

Print(a,kargs)

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

Ans: The result of the above code is 1 {'c': 3, 'b': 2}. \*\*args stands for variable length keyword arguments. this format is used when we want pass key value pairs as input to a function. All these key value pairs will be stored in a dictionary

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

print(a,kargs)

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

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))

Ans: The output of the above is 1 5 6 5. This reason for this function not throwing an error is because, this function expects 4 arguments. the value for a is provided explicitly whereas for arguments b and c, the function will expand the \*(5,6) and consider the value of b as 5 and value of c as 6. since the default value of d is provided in function declaration d value will be 5. However it is recommended to use the feature of positional arguments at the end.

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

print(a,b,c,d)

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

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

Ans: The output of above code is 1, ['x'], {'a': 'y'}.

Even Though Python gives importance to indentation. its provides a facility to declare an entire function in one single line. where statements in a function body are separated by ;

When l,m,n are provided as inputs to the function. its modifies the values of l,m,n and sets the value of l=2 ,m=['x'] and n={'a':'y'}

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

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