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:**

Word

Description automatically generated with medium confidence

**result: 1 2 8**

only two parameters are passed when called the function so the first value gets assigned to a and second value gets assigned to b and the value of c is already assigned in the function declaration.

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)

**Ans:**

Graphical user interface, application, Word

Description automatically generated

1 gets assigned to a and the value of b and c also get assigned as they are passed through to the function so they will overwrite the previous defined values.

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

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

print(a, pargs)

>>> func(1, 2, 3)

**Ans:**

Graphical user interface, text, application

Description automatically generated

The very first value is assigned to a and from that points onwards all the values are assigned to pargs.

4. What does this code print, and why?

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

print(a, kargs)

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

**Ans:**

A picture containing diagram

Description automatically generated

It is taking dictionary as an input so c and b become keys, and 3 and 2 become their values respectively.

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:**  \* iterates over to values and assign them to the variable.

Here 1 gets assigned to a and \*(5,6) gets iterated and assigned to b and c and d’s value has already been declared and doesn’t get overridden due to not being passed during calling the function.

Graphical user interface

Description automatically generated with low confidence

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:**

Graphical user interface, text, application

Description automatically generated

N is a dictionary and the value of a is y that is why in the output the return value of the 3rd parameter is a dictionary.