## **PYTHON ASSIGNMENT 23**

```
1. What is the result of the code, and why?
>>> def func(a, b=6, c=8):
print(a, b, c)
>>> func(1, 2)
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)
3. How about this code: what is its result, and why?
>>> def func(a, *pargs):
print(a, pargs)
>>> func(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)
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))
6. what is the result of this, and explain?
>>> def func(a, b, c): a = 2; b[0] = &#39;x';
c[\'a\'] = \'y\'
>>> I=1; m=[1]; n={'a':0}
>>> func(I, m, n) & gt;>> I, m, n
```

## SOLUTIONS

```
# 1. Result and Explanation
def func(a, b=6, c=8):
  print(a, b, c)
func(1, 2)
# Output: 1 2 8
# Explanation: The function `func` is called with arguments a=1,
b=2, and the default value c=8.
# The values are printed as specified in the function.
# 2. Result and Explanation
def func(a, b, c=5):
  print(a, b, c)
func(1, c=3, b=2)
# Output: 1 2 3
# Explanation: The function `func` is called with arguments a=1,
b=2, and c=3.
# The values are printed as specified in the function.
# 3. Result and Explanation
def func(a, *pargs):
  print(a, pargs)
```

```
func(1, 2, 3)
# Output: 1 (2, 3)
# Explanation: The function `func` is called with arguments a=1 and
the remaining arguments packed into pargs using *args.
# 4. Result and Explanation
def func(a, **kargs):
  print(a, kargs)
func(a=1, c=3, b=2)
# Output: 1 {'c': 3, 'b': 2}
# Explanation: The function `func` is called with keyword arguments
a=1, b=2, and c=3, which are packed into the dictionary kargs.
# 5. Result and Explanation
def func(a, b, c=8, d=5):
  print(a, b, c, d)
func(1, *(5, 6))
# Output: 1 5 6 5
# Explanation: The function `func` is called with arguments a=1,
*args=(5, 6), which unpacks to b=5 and c=6. The default values for d
are used.
# 6. Result and Explanation
```

```
def func(a, b, c):

a = 2

b[0] = 'x'

c['a'] = 'y'

i = 1

m = [1]

n = {'a': 0}

func(I, m, n)

print(I, m, n)

# Output: 1 ['x'] {'a': 'y'}

# Explanation: The function `func` modifies the values of its arguments.

# After calling the function, the values of I, m, and n are printed.
```