

Python Basics Quiz (3)

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Instructions:

- ✓ Choose the best answer for each question.
 - ✓ Each question has one correct answer.
 - ✓ Some questions include tricky elements to test your understanding.
- ✓ You also can get another [folder](#). (Quizzes, Answers and Notes)

1. What will be the output of the following code?

```
txt = "My name is {1}, and I'm {0} years old".format(19, 'Mohamed')  
print(txt)
```

- A) My name is Mohamed, and I'm 19 years old
- B) Error
- C) My name is 19, and I'm Mohamed years old
- D) My name is 1, and I'm 0 years old

2. What will be the output of the following code?

```
list = [-1, 1, 2]  
re = [x*(x-1) for x in list]  
print(re[0] == re[2])
```

- A) True
- B) False
- C) Error
- D) None of these

3. What will be the output of the following code?

```
print(float(35) is int(35))
```

- A) True B) False C) Error D) None of these

4. What will be the output of the following code?

```
print((10//4) == (int(10/4)))
```

- A) False
- B) True
- C) None of these

5. What will be the output of the following code?

```
a = [1, 2, 3]
```

```
b = a[:]
```

```
a += [4]
```

```
print(b)
```

- A) [1, 2, 3]
- B) [1, 2, 3, 4]
- C) NameError

6. Is it true that the memory size of a tuple is smaller than that of a list?

A) True

B) False

7. Is it true that the memory size of a dict is smaller than that of a list?

A) True

B) False

8. What will happen if you try to modify a variable from an outer function inside a nested function?

- A) Error
- B) Nothing will happen
- C) Depending on the modification

9. What will be the output of the following code?

```
x = "abc" * 0
```

```
y = True
```

```
if x == y:
```

```
    print("A")
```

```
elif x:
```

```
    print("B")
```

```
else:
```

```
    print("F")
```

A) B

B) F

C) A

10. In this question, answer the following points

```
* x = 0
```

```
y = None
```

```
print(x is y, x == y)
```

A) True, False

B) False, True

C) True, True

D) False, False

```
* x = 1
y = True
print(x is y)
```

- A) True, False B) False, True C) True, True D) False, False

11. In this question, answer the following points:

```
* list_of_j = []
list_of_i = []
result = []
for i in range(5):
    for j in range(5):
        if i == j:
            break
        else:
            list_of_j.append(j)
            list_of_i.append(i)
print(len(list_of_j)==len(list_of_i))
```

- A) True B) False C) Error

* There is any index has equal values in both lists?

- A) True B) False C) There is no enough info

* What is the output of both lists if the keyword “else” follows the inner for?

- A) [0] B) Gets error C) [] D) [4]

* What is the output of both lists if the keyword “else” follows the outer for?

- A) [0] B) Gets error C) [] D) [4]

```
* for x, y in zip(list_of_i, list_of_j):
    result.append(x-y)
print(result)
```

- A) [1, 2, 1, 3, 2, 1, 4, 3, 2, 1]
- B) [1, 2, 1, 3, 2, 1, 2, 3, 2, 1]
- C) [3, 2, 2, 3, 2, 1, 4, 3, 2, 1]
- D) [1, 2, 1, 2, 2, 1, 4, 3, 1, 1]

12. In this question, answer the following points:

```
* x = True + True
y = False + True
z = False or True and False
print(x * y + 3)
```

- A) Error B) 5 C) TrueTrueTrue D) 6

* if x == 2.0:

for i in range(z):

print(y)

A) No output

B) 1

C) 5

D) gets error

13. What will be the output of the following code?

x = [] or 0 or False or "Hello"

print(x)

- A) False
- B) Error
- C) True
- D) Hallo

14. What will be the output of the following code?

for i in range(5):

for j in range(5):

if i == j:

break

else:

print(i, i==j, sep=":")

A) 5: True

B) 4: False

C) 5: False

D) 4: True

15. What will be the output of the following code?

x = []

for i in range(3):

x.append(i)

i += 10

print(x)

- A) [0, 1, 2]
- B) [0, 10, 30]
- C) [10, 20, 30]
- D) [1, 2, 3]

16. Which of the following is *not* a valid Python data type?

A) tuple

B) char

C) set

D) list

17. In this question, answer the following points:

* Which of the following is not a valid Python data type? lambda x: x + 5

A) def f(x): return x + 5

B) def f(): return x + 5

D) lambda x, y: x + 5}

C) lambda: x + 5

* Which of these is *not* a valid way to define an empty structure in Python?

- A) {} B) [] C) set() D) {None}

* Which of the following is *not* a valid Boolean context in Python?

- A) if 0: B) if None: C) if 1 & "1" D) while "":

18. What will be the output of the following code?

```
def f(x=[]):  
    x += [1]  
    return x  
print(f())  
print(f())
```

- A) [1], [1, 1]
- B [1], [1]
- C) [0], [0, 1]
- D) [], [1]

19. Which of the following lines works without errors?

```
def order(item, quantity=1, price=10):
```

```
    print(f"{quantity} x {item} at ${price} each")
```

- | | |
|---|-------------------------|
| 1- order("Notebook", 2, price=12) | -3 order(item="Pen", 3) |
| 2- order("Pencil", quantity=5, price=2) | -4 order(quantity=10, |
| "Eraser") | |

- A) 1, 2
- B) 1, 4
- C) 1, 4, 2
- D) 2, 3

20. Which of the following choices is correct?

```
* def outer():  
    count = 0  
    def inner():  
        count += 1  
        print("Count =", count)  
    return inner  
counter = outer()  
counter()
```

- A) Count = 1 B) Count = 2 C) Error D) Count = 0

21. Is there an error in the previous question? If so, what Python keyword do you use to solve the error?

- A) global B) nonlocal C) local D) Nothing