

# Quiz 1

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1. What is the output of the following code?

```
x = 5  
y = 3  
x = y  
y = x + 2  
print(x, y)
```

- ☒ 3 5
- ☐ 5 3
- ☐ 2 3
- ☐ 3 2

2. What is the output of the following code?

```
a = 10  
b = 5  
c = a // b  
d = a % b  
print(c, d)
```

- ☐ 10 5
- ☐ 10 2
- ☐ 5 2



☒ 2 0

3. What is the output of the following code?

```
x = 5  
y = 10  
x = y  
y = 20  
print(x)
```

☐ 5

☒ 10

☐ 20

☐ None

4. What is the output of the following code snippet?

```
x = 5  
y = 10  
if x > y:  
    print("x is greater")  
else:  
    print("y is greater")
```

☐ x is greater

☒ y is greater

☐ Error

☐ None

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

```
sum = 0
for i in range(1, 6):
    sum += i
print(sum)
```

- ☒ 15
- ☐ 10
- ☐ 5
- ☐ 30

6. What will be the output of the given code?

```
count = 0
while count < 5:
    print(count)
    count += 1
```

- ☒ 0 1 2 3 4
- ☐ 1 2 3 4 5
- ☐ 0 1 2 3 4 5
- ☐ Error

7. What will be the output of the given code if x = 10?

```
x = 10
if x > 5:
    print("x is greater than 5")
elif x == 5:
    print("x is equal to 5")
else:
```

`print("x is less than 5")`

- ☒ x is greater than 5
- ☐ x is equal to 5
- ☐ x is less than 5
- ☐ Error

8. Which of the following data types in Python is mutable?

- ☐ int
- ☐ float
- ☐ tuple
- ☒ list

9. Which of the following data types in Python is immutable?

- ☐ set
- ☐ dict
- ☐ list
- ☒ str

10. Which of the following operations can be performed on immutable objects?

- ☐ Appending new elements
- ☐ Removing elements
- ☐ Modifying elements
- ☐ None of the above

11. What happens when you assign a new value to an existing variable of an immutable data type?

- ☐ The existing object is modified with the new value.
- ☒ A new object is created with the new value and assigned to the variable.
- ☐ An error occurs as you cannot assign a new value to an existing variable of an immutable data type.
- ☐ None of the above.

12. Consider the following code:

```
my_list = [1, 2, 3]
new_list = my_list
new_list.append(4)
print(my_list)
```

What will be the output of the above code?

- ☐ [1, 2, 3]
- ☒ [1, 2, 3, 4]
- ☐ [1, 2, 3, 3, 4]
- ☐ Error

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