


1. What is the result of the following expression?


python

 Copy code

```
5 + 3 * 2
```

2. What is the output of the following code?


python

 Copy code

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

3. Evaluate the following boolean expression:


python

 Copy code

```
(10 > 5) and (not (5 > 10))
```

4. What is the result of the following division?


python

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```
7 / 2
```

5. What will be the value and type of `x` after the following operation?


python

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```
x = 4 // 2
```

6. What is the output of the following code?


python

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```
a = [1, 2, 3]
b = a
b[0] = 4
print(a)
```

7. What does the following slice operation return?


python

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```
s = "hello"
print(s[1:4])
```

8. What will be the value of `result`?

python


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```
result = 2 ** 3 ** 2
```

9. Given the list `a = [1, 2, 3, 4, 5]`, what will be the result of `a[::-1]`?

10. Evaluate the following expression:


python

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```
10 % 3
```

11. What is the result of the following code?


python

 Copy code

```
x = [1, 2, 3]
y = [1, 2, 3]
print(x == y)
print(x is y)
```

12. What is the output of the following code?


python

 Copy code

```
x = "Python"
y = x * 3
print(y)
```

13. What is the type and value of `x` after the following operation?


python

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```
x = True + 1
```

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


python

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```
print('abc' < 'abd')
```

15. What is the result of the following code?


python

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```
d = {'a': 1, 'b': 2}
d['c'] = 3
print(d)
```

16. What will be the value of `a` after the following operation?


python

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```
a = "123"
a += "456"
```

17. What is the output of the following code?


python

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```
a = [1, 2, 3]
b = a[:]
b.append(4)
print(a)
print(b)
```

18. Evaluate the following expression:


python

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```
3 * (2 + 4) ** 2
```

19. What will be the result of the following comparison?


python

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```
print(5 == 5.0)
```

20. What is the output of the following code?

python

 Copy code

```
x = (1, 2, 3)
y = x + (4,)
print(y)
```