

Python Logical Operator Questions

1.

a=10

b=5

print(a>3 and b<10)

output: True

2.

x=7

print(not(x<10))

output: False

3.

x=4

y=12

print(x<5 or y<10)

output: True

4.

age=18

has_id=False

print(age>=18 and has_id)

output: False

5.

logged_in=True

admin=False

print(logged_in or admin)

output: True

6.

```
is_sunny=False
```

```
have_umbrella=True
```

```
print(not is_sunny and have_umbrella)
```

output: True

7.

```
a=True
```

```
b=False
```

```
print(not(a or b))
```

output: False

8.

```
temp=25
```

```
print(temp>20 and temp<30)
```

output: True

9.

```
marks=45
```

```
print(not(marks >=50 or marks ==49))
```

output: True

10.

```
X=0
```

```
Y=10
```

```
Print(not x and y>5)
```

output:True

Python Logical, Membership, Comparison, and Assignment Operator Questions

Complex Operator Code Snippets (All Operators Used)

1.

```
x = 15
```

```
y = 10
```

```
z = 5
```

```
x += 5
```

```
print ((x > y or z in [5, 6]) and not (x == 20))
```

output:true

2.

```
username = "admin"
```

```
roles = ["user", "editor", "admin"]
```

```
access_granted = username in roles and username != "guest"
```

```
print(access_granted)
```

output:true

3.

```
marks = 85
```

```
status = "Pass" if marks >= 40 else "Fail"
```

```
print(status == "Pass" and marks in range(80, 91))
```

output:true

4.

```
items = ["pen", "book", "bottle"]
```

```
available = "bottle" in items
```

```
stock = 10
```

```
stock -= 1
```

```
print(available and stock != 0)
```

output:true

5.

x = 5

y = 5

z = 0

1

x *= 2

print(x == 10 and (y in [1, 5]) or not z)

output:true

6.

age = 25

id_card = True

is_verified = False

is_verified = age >= 18 and id_card

print(is_verified and not (age < 18))

output:true

7.

login = True

admin = False

privileges = ["read", "write"]

print(("delete" not in privileges) and (login or admin))

output:true

8.

x = 8

y = 12

x %= 5

```
y //= 3
```

```
print(x != y and (x not in [0, 1]))
```

output:true

9.

```
students = ["Asha", "Ravi", "Mira"]
```

```
marks = {"Asha": 78, "Ravi": 65}
```

```
print("Mira" in students and students[0] in marks)
```

output:true

10.

```
x = 100
```

```
y = 50
```

```
x -= 50
```

```
y += 10
```

```
print((x == y) or (x > y and "Python" not in ["Java", "C++"]))
```

output:false

2 Comparison Operator Examples

1.

```
a = 10
```

```
b = 20
```

```
print(a != b)
```

output:true

2.

```
x = 30
```

```
y = 30
```

```
print(x == y)
```

output:true

3.

```
age = 18
```

```
print(age >= 18)
```

output:true

4.

```
a = 50
```

```
b = 100
```

```
print(a < b)
```

output:true

5.

```
score = 75
```

```
print(score >= 60 and score <= 90)
```

output:true

Logical Operator Examples

1.

a = True

b = False

print(a and b)

output:false

2.

x = 10

y = 20

print(x < 15 or y > 25)

output:true

3.

flag = False

print(not flag)

output:true

4.

marks = 70

print(marks > 60 and marks < 80)

output:true

5.

has_ticket = True

is_vip = False

print(has_ticket or is_vip)

output:true

Assignment Operator Examples

1.

```
x = 5
```

```
x += 2
```

```
print(x)
```

output:7

2.

```
count = 10
```

```
count -= 3
```

```
print(count)
```

output:7

3.

```
value = 6
```

```
value *= 3
```

```
print(value)
```

output:18

4.

```
num = 40
```

```
num //= 4
```

```
print(num)
```

output:10

5.

```
val = 9
```

```
val %= 2
```

```
print(val)
```

output:1

Membership Operator Examples

1.

```
colors = ["red", "green", "blue"]
```

```
print("red" in colors)
```

output:true

2.

```
text = "hello world"
```

```
print("world" in text)
```

output:true

3.

```
students = ["Tom", "Jerry"]
```

```
print("Spike" not in students)
```

output:true

4.

```
chars = "abcdef"
```

```
print("g" not in chars)
```

output:true

5.

```
numbers = [1, 2, 3, 4, 5]
```

```
print(3 in numbers)
```

output:true