1	What is	tha	outnut	of the	following	codo?
1.	w nat is	i uie	output	or the	TOHOWING	coue:

```
x = 5
y = 3
print(x % y)
   a) 2
   b) 1
   c) 3
   d) 0
```

2. Which of the following is a valid comparison operator in Python?

```
a) ===
b) =>
c)!=
```

d) <>

3. What will be the output of this code?

```
a = 10
b = 20
if a > b:
   print("A is greater")
else:
   print("B is greater")
```

- a) A is greater
- b) B is greater
- c) No output
- d) Error

4. Which operator is used to raise a number to a power in Python?

```
a) ^
b) **
```

- c) pow
- d) exp

5. What is the result of the following expression? 4 + 3 * 2

```
a) 14
b) 10
```

- c) 11
- d) 16

6. What will be printed?

```
x = 15
if x % 5 == 0 and x % 3 == 0:
```

```
print("Divisible by both")
else:
  print("Not divisible by both")
```

- a) Divisible by both
- b) Not divisible by both
- c) Error
- d) None

7. What is the output?

```
a = 5
b = 10
c = 5
print(a == c or b < a)</pre>
```

- a) True
- b) False
- c) None
- d) Error

8. Which of the following is NOT a logical operator in Python?

- a) and
- b) or
- c) not
- d) xor

9. What does the following code do?

```
x = 7
if x > 0:
    if x < 10:
    print("Single-digit positive number")</pre>
```

- a) Always prints the message
- b) Never prints the message
- c) Prints only for negative numbers
- d) Prints only if x is 10 or more

10. What is the result of this expression? True and False or True

- a) True
- b) False
- c) Error
- d) None

answers:

- 1. a) **2**
- 2. c) !=
- 3. b) **B** is greater
- 4. b) ****** (Exponentiation operator)
- 5. b) **10**
- 6. a) **Divisible by both**
- 7. a) **True**
- 8. d) **xor** (Not a valid logical operator in Python)
- 9. a) Always prints the message
- 10. a) **True**
- 1. What is the result of 7 // 2 in Python?
 - a) 3.5
 - b) 4
 - c) 3
 - d) 3.0
- 2. Which operator is used for bitwise AND in Python?
 - a) &&
 - b) &
 - c) and
 - d) &&&
- 3. What will be the output of this code?

```
x = 10
y = 20
if x != y:
    print("Not Equal")
```

- a) Equal
- b) Not Equal
- c) True
- d) False

4. What does the not operator do in Python?

- a) Performs negation
- b) Performs addition
- c) Checks membership
- d) Checks identity

5. What is the output of this code?

```
if False or not False:
    print("Yes")
else:
    print("No")
```

- a) Yes
- b) No
- c) True
- d) False

6. Which of these expressions evaluates to True?

```
a) 10 > 5 and 2 > 3
```

```
b) not (10 < 5)
```

$$c)$$
 5 == 5 or 6 < 4 and 3 == 3

d) Both b and c

7. What will this print?

```
x = 3
y = 5
if x * 2 > y:
    print("Condition True")
else:
    print("Condition False")
```

- a) Condition True
- b) Condition False
- c) Error
- d) None

8. Which operator has the highest precedence in Python?

- a) and
- b) ==

- c) not
- d) **

9. What is the output of this?

```
x = 4
if x % 2 == 0:
    if x % 4 == 0:
        print("Divisible by 4")
    else:
        print("Even but not by 4")
```

- a) Divisible by 4
- b) Even but not by 4
- c) Error
- d) None

10. Which of these is the correct way to check if two variables refer to the same object in memory?

- a) a == b
- b) a = b
- c) a is b
- d) a === b

Answers:

- 1. **b**) 3
- 2. **b**) &
- 3. **b**) Not Equal
- 4. **a**) Performs negation
- 5. **a**) Yes
- 6. **d**) Both b and c
- 7. **b**) Condition False
- 8. **d**) **
- 9. **a)** Divisible by 4
- 10.c) a is b