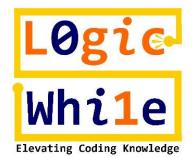


Topic	Name:	Operators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

Aproved by: -----

M	IIICTE	
-		Score:
Eleva	ting Coding Knowledge	Performance:
1.	Which operator performs A) ** B) // C) % D) ^	s exponentiation in Python?
An	swer: A	
2.	If x = 8 , what is the result A) 2 B) 1 C) 3 D) 0	of x % 3?
An	swer: A	
3.	What is the output of 3 * A) 4.5 B) 4 C) 9 D) 7	* 2 // 2 ?
An	swer: D	
4.	Which of the following has A) + B) // C) ** D) %	as the highest precedence?
An	swer: C	
5.	If x = 5 , which of the follo A) x != 5 B) x <= 5 C) x > 10 D) x == 10	wing evaluates to True?



Topic N	Vame: O	perators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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Performance: -----

_	What does	10 × F and	J	معمينامييم	+-2
ь.	wnat does	10 > 5 and	15!=5	evaluate	TO !

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

Answer: B

- 7. What does False or True and False evaluate to?
 - A) True
 - B) False
 - C) Error
 - D) None

Answer: B

8. Given the pseudocode:

X = 14 >> 2

Y = 7 << 1

 $Z = X \wedge Y$

What is the value of **Z**?

- A) 10
- B) 14
- C) 6
- D) 2

Answer: C

- **9.** What does the **&** operator do?
 - A) Logical AND
 - B) Bitwise AND
 - C) Logical OR
 - D) Bitwise OR



B) 24 C) 28 D) 32

Answer: C

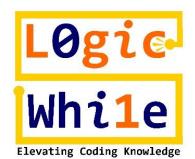
Topic	Name:	Operators
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Student Name and ID: Sathvika Nellutla(07)

Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

Aproved by: -----

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MIICTE	Score:
Elevating Coding Knowledge	Performance:
10. Which operator shifts bA) <B) >>C) ~D) ^	pits to the right?
Answer: B	
11. Which assignment open A) = B) //= C) /= D) %=	rator is used to perform floor division ?
Answer: B	
 12. If x = 4, what does x *** A) 2 B) 8 C) 16 D) Error 	= 2 result in?
Answer: C	
13. What is the output of the ((5 2) ^ (7 & 3)) << 2 A) 16	he following expression?



Topic N	Vame: O	perators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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Performance: -----

14.	If $x = 1$	[1, 2]	and v	' = [1, 21	what does	x is v	return?
	11 A -	1 T , C	i aiia 🔻		4, 4 ,	Wilat accs	A 13 Y	I C tuilli

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

Answer: B

15. Given the pseudocode:

A = 10

B = 3

C = A // B + A % B

value of **C**?

- A) 4
- B) 5
- C) 6
- D) 7

Answer: C

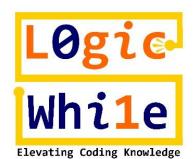
16. Consider the expression 4 ** 2 ** 3. How is it evaluated based on associativity?

- A) (4 ** 2) ** 3 (left-to-right)
- B) 4 ** (2 ** 3) (right-to-left)
- C) 4 ** 2 * 3 (arbitrary order)
- D) SyntaxError

Answer: B

17. What does **2** in [1, 3, 5] evaluate to?

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



Topic I	Vame: 0	perators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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18. What does the following expression evaluate to?

- A) 14
- B) 12
- C) 10
- D) 8

Answer: A

19. Which of the following results in True?

Answer: D

20. Given the pseudocode:

$$A = 15$$

$$B = 7$$

$$C = (A \mid B) \& \sim (A \& B)$$

What is the value of **C**?

- A) 8
- B) 10
- C) 14
- D) 6

Answer: B

21. Evaluate the output of:

$$(16 >> 2) + (9 | 1) - (5 & 3)$$

- A) 12
- B) 14
- C) 10
- D) 8

Answer: A



Topic	Name:	Operators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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MIICTE	Score:
levating Coding Knowledge	Performance:
22. For the assignment A) Left-to-right B) Right-to-left C) Neither D) Both	operator =, which of the following is the correct associativity rule?
Answer: B	
23. Given the pseudoco A = 15 B = 7 C = (A B) & ~(A & What is the value of A) 8 B) 10 C) 14 D) 6	В)
Answer: B	
24. Which operator che A) is B) == C) in D) =	ecks if two variables point to the same memory location?
Answer: A	
25. What does 'apple' r A) True B) False C) Error D) None	not in ['orange', 'banana'] evaluate to?

Answer: A



Topic N	Vame: O	perators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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Performance: -----

26.	What is the	result of the	following	expression?
20.	vviiat is till	i Couit of the	IUIIUVVIIIE	CADIC33IOII:

$$((8 // 3) ** 2) + (14 % 5) - ((7 >> 1) & 3)$$

- A) 9
- B) 12
- C) 14
- D) 16

Answer: B

- 27. What is the output of 3 ** 2 // 2?
 - A) 4.5
 - B) 4
 - C) 9
 - D) 7

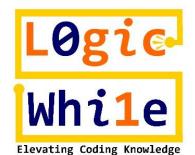
Answer: D

- 28. Which Boolean operator has the highest precedence?
 - A) && (AND)
 - B) || (OR)
 - C) ! (NOT)
 - D) All have the same precedence

Answer: C

- 29. If x = true and y = false, what is the result of the expression x && !y?
 - A) true
 - B) false
 - C) null
 - D) undefined

Answer: A



Topic	N	lame: 0	perators
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Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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(12 >> 2) & (9 | 3) ^ (15 % 4)

- A) 1
- B) 3
- C) 5
- D) 7

Answer: B

- **31.** Which of the following evaluates to **0**?
 - A) (15 & 7) ^ (8 | 3)
 - B) (14 >> 3) & (3 << 1)
 - C) (12 ^ 12) | (4 % 2)
 - D) (7 >> 2) & (15 % 4)

Answer: C

32. Consider the pseudocode:

- A = 8 | 3
- B = A & 7
- $C = B \wedge 2$

What is the value of C?

- A) 2
- B) 6
- C) 4
- D) 5

Answer: D

- **33.** In the expression **2** ** **3** ** **2** (exponentiation operator **), which associativity rule applies?
 - A) Left-to-right
 - B) Right-to-left
 - C) Neither
 - D) Both



Topic Name: Operators

Student Name and ID: Sathvika Nellutla(07)

Mentor Name: Tejaswini Annaluri Date of Submission: 08-01-2025

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Performance: -----

- **34.** Which of the following Boolean expressions is always **true**?
 - A) true || false
 - B) true && false
 - C) false && false
 - D) false || false

Answer: A

- 35. What is the output of the Boolean expression false && (true | | false)?
 - A) true
 - B) false
 - C) null
 - D) undefined