1. Select the correct result of the following expression **(10 | 3) & (7 >> 2) + 5 % 3**
    A) 0
    B) 4
    C) 6
    D) 3
Answer: D

2. Select the correct result of the following expression **x //= 3** where **x=5**
    A) 1
    B) 4
    C) 6
    D) 3
Answer: A

3. Select the correct result of the following expression **5 ** 3**
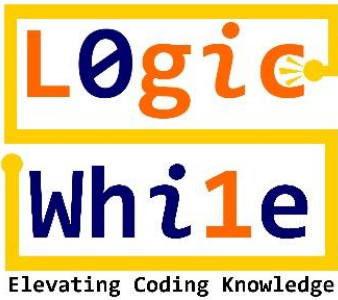   A) 15
    B) 125
    C) 25
    D) 15
Answer: B

4. Select the correct result of the following expression **15<<3 | 22>>2**
    A) 15
    B) 125
    C) 25
    D) 15
Answer: B

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5. What will the expression **10 != 2 * 5** return?

       A) True
       B) Error
       C) False
       D) None of the above

Answer: C

6. Select the correct result of the following expression **2 + 3 * 5 - 4 // 2 ** 2**.

       A) 17
       B) 16
       C) 18
       D) 100

Answer: B

7. What will be the result of the following expression:

  True and not False or False

       A) True
       B) False
       C) Error
       D) None of the above

Answer: A

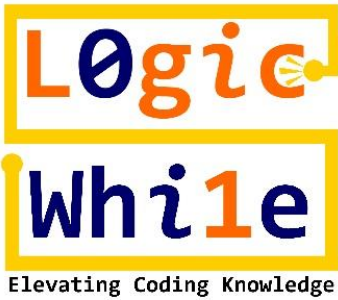8. What is the result of the following code snippet?

x = 10
x *=2
x +=5
print (x ** 2)

       A) 625
       B) Error
       C) 650
       D) 200

Answer: A

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9. What will the result of the expression **'hello' not in 'helloworld'** be?

> A) True
> B) False
> C) Error
> D) None of the above

Answer: B

10. What is the result of the following code snippet?
a = 15
b = 4
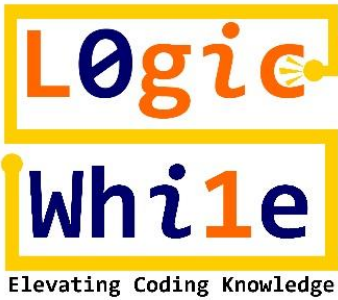**c = 3**
print((a + b) * (a // b) + a **c)

> A) 3908
> B) 2458
> C) 3432
> D) None

Answer: C

11. Given the list **colors = ['red', 'green', 'brown', 'yellow'],** which of the following expressions will return True if the string **'green'** is present in the list?

> A) 'green' in colors
> B) 'yellow' not in colors
> C) 'green' == colors[2]
> D) colors == 'green'

Answer: A

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12. What will the expression **'x' in 'box'** return?

     A) True
     B) False
     C) Error
     D) None of the above

Answer: A

13. Given list **lst = [1, 3, 5, 7, 9, 11],** and the string **s = "513",** what will the following expression return?
any(c in lst for c in map(int, s))

     A) True
     B) False
     C) Error
     D) None of the above

Answer: A

14. Given the tuple **t = (1, 2, 3, 4, 5),** evaluate the following expression:
(3 in t and 4 in t) or (6 not in t and 1 in t)

     A) True
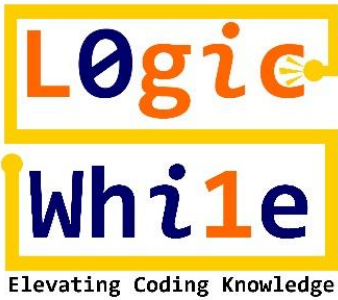   B) False
     C) Error
     D) None of the above

Answer: A

15**.** What will be the output of code snippet?

def find(numbers):

     for num in numbers:

          if num < 5 and num % 2 != 0:

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```
            return num

        return None

numbers = [2, 4, 6, 3, 7, 5]

print(find(numbers))
```

> A) 3
> B) 4
> C) 2
> D) None
> **Answer: 3**

16. What will be the Output of the snippet?

```
numbers = [1, 3, 10, 15, 7]

for num in numbers:

    if num % 5 == 0:

        print(num)
```
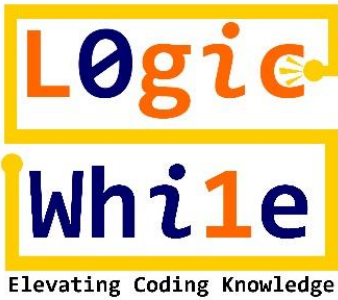
> A) 10 15
> B) 15 10
> C) Error
> D)15

Answer: A

17. What will be the output of code snippet?

```
numbers = [1, 4, 6, 9, 8]

for num in numbers:

    if num > 5 and num % 2 != 0:

        print(num)
```

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numbers = [0 , 4, 6, 9, 8]

A) 8

B) 0

C) Error

D)9

Answer: D

18. What is the result of **5 < 10 == 10** be?

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

Answer: A

19. What is the result of **not (True or False) and (False or True)?**

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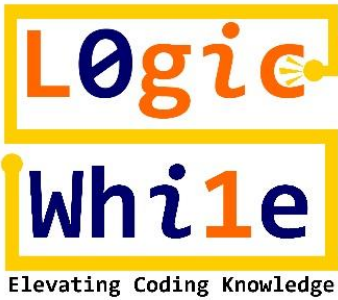B) False
C) None
D) Error

Answer: B

20.What is the result of 15 ^ 5?

A) 90
B) 45
C) 10
D) 9

Answer: C

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21. What is the output of **'a' in 'banana' and 'c' not in 'cat'**?

A) True
B) False
C) None
D) Error
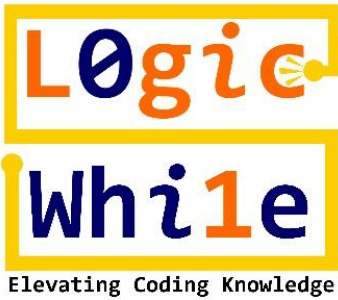
Answer:B

22. What is the result of **100 == 50 * 2 == 100**?

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

Answer: A

23. What is the result of 16 >> 2 & 7?

A) 4
B) 8
C) 2
D) 6

Answer: A

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24. What will be the output of the following code?

 x = [1, 2, 3]

y = x

z = [1, 2, 3]

print(x is y)

print(x is z)

> A) True True
> B) True False
> C) False True
> D) False False

Answer: B

25. What is the result **of 12 ^ 3 ^ 12** ?

> A) 11
> B) 3
> C) 43
> D) 4

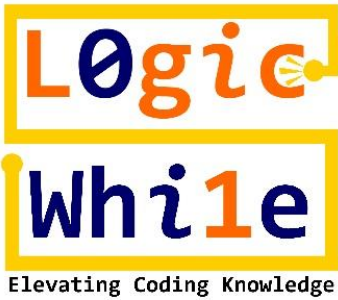**Answer:B**

26. What is the output of this snippet?

x = True

y = False

z = True

print(x or y and not z)

> A) True
> B) False

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C) Error

D) None

Answer:A

27. What is the result of the expression **(not (True or False) and False) or (True and not False)**?

A) True

B) False

C) None

D) Error

Answer: A

28. What is the output of this snippet?

x = 15

y = 6
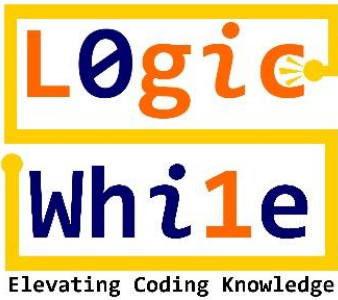
result = x // y + y ** 2 - x % y

print(result)

A) 40

B) 35

C) 26

D) 19

Answer:B

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29. What will be the output of the following code?

a = True

b = False

c = True

if (a or b) and not (b and c):

   print("Condition Met")

else:

   print("Condition Not Met")

      A) Condition Met
      B) Condition Not Met
      C) Error
      D) None

Answer:A

30. What will be the output of the following code?

x = 47
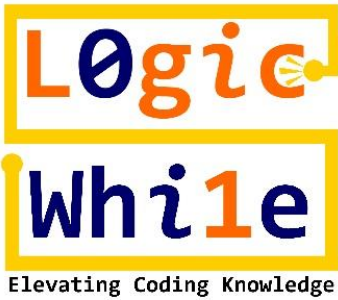
y = 5

print(x ^ y)

      A) 49
      B) 52
      C) 42
      D) 98

Answer: C

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31. What is the output of the following?

a = False

b = True

c = True

d = False

if a or (b and not c) or (d and not b):

   print("True")

else:

   print("False")

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

Answer:B

32. What will be the output of the following code?
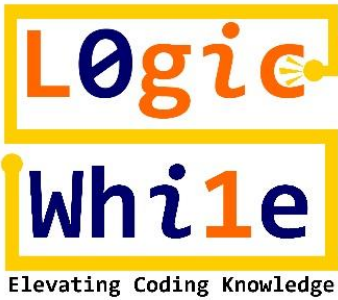
dict1 = {1: 'a', 2: 'b', 3: 'c'}

dict2 = {3: 'x', 4: 'y'}

dict1[2] = dict2.get(3, 'z')

dict1[5] = dict2.get(5, 'z')

result = dict1

print(result)

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    A) {1: 'a', 2: 'x', 3: 'c', 5: 'z'}
    B) {1: 'a', 2: 'z', 3: 'c', 5: 'z'}
    C) {1: 'a', 2: 'b', 3: 'c', 5: 'z'}
    D) {1: 'a', 2: 'x', 3: 'c', 5: 'x'}

Answer: A

33. What will be the output of the following code?

dict1 = {1: 'one', 2: 'two', 3: 'three'}

dict2 = {3: 'THREE', 4: 'four'}

dict1.update(dict2)

dict1[1] = dict1.get(2).upper()

result = dict1

print(result)

    A) {1: 'TWO', 2: 'two', 3: 'THREE', 4: 'four'}
    B) {1: 'TWO', 2: 'TWO', 3: 'THREE', 4: 'four'}
    C) {1: 'one', 2: 'two', 3: 'THREE', 4: 'four'}
    D) {1: 'TWO', 2: 'two', 3: 'three', 4: 'four'}
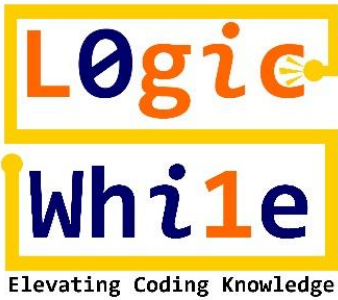
Answer:A

34. Evaluate the following expression:

result = 5 + 3 * 2 ** 2 // 4

print(result)

    A) 8
    B) 7
    C) 16
    D) 11

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Answer: A

35.What will be the output of code snippet?

numbers = [1, 5, 8, 11, 15]

result = None

for num in numbers:

   if num > 10 and num % 2 == 0:

     result = num

     break

print(result)

      A) 8
      B) 15
      C) None
      D) 11

Answer: C