

Bitwise Operators:

- If “a = 60” and “b = 13”, what will be the value of “c” after executing the below statements? How?

Operation	Result of “c”
c = a & b	
c = a b	
c = a ^ b	
c = a << 2	
c = a >> 2	

Membership Operators:

- Create a list “new_list” with values from from 1 to 10.

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new_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
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Check if the value “6” is present in the list or not. If its present, display “6 IS PRESENT”, otherwise display “6 IS NOT PRESENT”

Arithmetic Operators:

- Display the quotient, remainder for the number 15, if it is divided by 2?

if ... else questions:

- Take two integer values from the user and print greatest among them?
- A shop is giving discount of 20%, if the cost of purchased quantity is more than Rs.2000.
 - Ask user for quantity
 - Consider, one unit will cost Rs.100
 - Calculate and display total cost for the user
- A company decided to give bonus of 4% to employees if his/her year of service is more than 5 years.
 - Ask user for their salary and year of service and print ONLY the net bonus amount.

- A school has following rules for grading system:
 - a. Below 25 - F
 - b. 25 to 45 - E
 - c. 45 to 50 - D
 - d. 50 to 60 - C
 - e. 60 to 80 - B
 - f. Above 80 - A
- Ask student to enter his/her marks and display the corresponding grade.
- Take input of age of 3 people and determine oldest and youngest among them.

Loop questions:

- Using "FOR" loop and "RANGE", display the numbers 1 to 10 in ONE line?
- Use the WHILE loop and perform the below:
 - DO NOT display / OMIT the number , when it is divisible by 2. Otherwise display the number
 - Ask the user to input any value and display. Come out of the loop, when the user enters "EXIT"
- Print 1 to 10 numbers using while loop (Each number should be displayed in a different line)
- Print 1 to 10 numbers using while loop (Each number should be displayed in the same/one line)
- Print the following pattern using FOR loops.

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

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