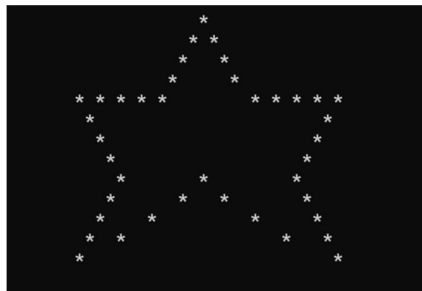

QUESTIONS FOR C LANGUAGE

1. Write a program to create a box pattern with the introduction using printf only as shown here:

```
*****
*                                           *
*   Name-> Priyanshu Chauhan                *
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*   Degree-> B.E                             *
*   College-> R.N.G.P.I.T                   *
*                                           *
*****
```

2. Write a program to create a star pattern using printf as shown here:



3. Write a program to create a simple calculator.
4. Write a program to find cube and square of given number.
5. Write a program to find simple interest.
HINT: $PRN/100$
6. Write a program to find area of circle.
7. Write a program to find area of square and rectangle.

LOOP:

8. Write a program to check whether a number is even.
9. Write a program to check whether a person is eligible to vote.
10. Write a program to check whether a given year is a leap year.
11. Write a program to check a number is divisible by 5.
12. Write a program to find the greater of two numbers.

13. Write a program to check whether a number is zero or non-zero.
14. Write a program to check whether a character is an alphabet, digit or special character using else-if ladder.
15. Write a program to check whether a number is divisible by both 3 and 5 using nested if.
16. Write a program to check if a triangle is valid and also equilateral, isosceles or scalene using nested if.
17. Write a program to classify a person based on age (child, teenager, adult, senior) using else-if.
18. Write a program to check temperature range (cold, warm, hot, very hot) using else-if ladder.
19. Write a program to display traffic light meaning (red, yellow, green) using switch.
20. Write a program to print number from 10 to 1 using while loop.
21. Write a program to print the sum of first 20 numbers using for loop.
22. Write a program to find the factorial of given number.
23. Write a program to find the sum of digits of a number.
HINT: (1234 => 1 + 2 + 3 + 4)
24. Write a program to find sum of all even and odd numbers separately from 1 to 10.
25. Write a program to display the multiplication table of given number.
26. Write a program to find the power of a number using loop.
27. Write a program to find the sum of first and last digit of number.
HINT: (number= 4216 => 4 + 6 = 10)
28. Write a program to find the minimum digit of given number.
HINT: (5167 => 1 is min number)

ARRAY:

29. Write a program to find sum of all even elements of a given array.
30. Write a program to create a new array of only odd numbers from a given array elements.
31. Write a program to find min and max elements from a given array.
32. Write a program to find second largest number from a given array.