

**PART-A**

1. Write a program to read the following numbers, round them off to the nearest integers and print out the results in integer form: 35.7      50.21      -23.73      -46.45
2. Write a C program to find whether a given year is a leap year or not.
3. Write a C program to find the sum of first 10 natural numbers.
4. Write a program in C to make such a pattern like right angle triangle with a number, which will repeat a number in a row.  
1  
22  
333  
4444
5. Write a program in C to print the Floyd's Triangle.  
1  
01  
101  
0101  
10101
6. Write a program in C to display the pattern like a pyramid using asterisk and each row contain an odd number of asterisks.  
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**PART-B**

7. Write a program in C to swap two numbers using function. 10  
Test Data :  
Input 1st number : 2  
Input 2nd number : 4  
Expected Output :  
Before swapping: n1 = 2, n2 = 4  
After swapping: n1 = 4, n2 = 2  
Note: don't use any third variable in swapping
8. Write a program in C to check whether a number is a prime number or not using the function. 10  
Test Data :  
Input a positive number : 5  
Expected Output :  
The number 5 is a prime number.
9. Write a program in C to Print Fibonacci Series using recursion. 10  
Test Data :  
Input number of terms for the Series (< 20) : 10  
Expected Output:  
Input number of terms for the Series (< 20) : 10  
The Series are : 1 1 2 3 5 8 13 21 34 55
10. Write a program in C to find the Factorial of a number using recursion. 10  
Test Data :  
Input a number : 5  
Expected Output: The Factorial of 5 is : 120
11. Write a program in C to reverse a string using function. 10  
Test Data :  
Input any string: w3resource  
Expected Output: The reversed string is: ecrusor3w