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1. A program that takes in a number as user input, tests if it is odd or even, and prints the result.

I - inputted by the user.  
P- test if it is odd or even.  
O- prints the result.

ALGORITHM

1.read in number   
2.test the number if its is even or odd  
3. result of test if it is even or odd  
5.prints the result

FLOWCHART

Even number

Odd number

**End**

Prints result

test the number if its is even or odd

Input number

**START**

2. A program that takes in 5 numbers from the user and calculates the average.

I- user input 5 number  
 P- user calculates the average of 5 number  
 O- Prints out the result.

ALGORITHM

1. read in 5 number   
2. Calculates the average of inputted 5 number

FLOWCHART

5 number

**END**

Calculates the average of the inputted 5 number

**START**

3. A program that computes for the area of the triangle using the formula area=1/2bh, where b=base, and h=height of the triangle is entered by the user.

I- user inputs the area of triangle   
P- computes the area of triangle using the formula; area=1/2bh   
O- area of the triangle

ALGORITHM

1.read in area of triangle b=base and h=height   
2. calculates the area of triangle using the Formula; area=1/2bh

FLOWCHART

**START**

**END**

Area of triangle

Computes area of triangle using formula; are=1/2

Inputs the area of triangle

4. A program that takes in numbers input by the user and counts them. If the user enters -1, it stops and prints the total count.

I- user inputs the number  
 P- user counts the number and if it enters -1 it stop  
 O- prints the total count

ALGORITHM

1.initialize the counter variable to 1  
2.input the number  
3.counts the number   
4. inputs -1 the process stop  
5. Result of counts

Result of counts

**START**

C

1 n  
 1

Counts the number

User Inputs number

**START**