

Algorithms and Flowcharts

1. Algorithm to Calculate Factorial of a Number

Algorithm:

1. Start.
2. Input a number n .
3. Initialize $fact = 1$.
4. If $n < 0$, print "Factorial not defined for negative numbers" and stop.
5. For $i = 1$ to n :
 - a. $fact = fact * i$.
6. Print $fact$.
7. Stop.

2. Algorithm to Find the Largest of Three Numbers

Algorithm:

1. Start.
2. Input three numbers a , b , c .
3. If $a > b$ and $a > c$, print "a is the largest".
4. Else if $b > a$ and $b > c$, print "b is the largest".
5. Else, print "c is the largest".
6. Stop.

3. Algorithm to Determine if a Number is Odd or Even

Algorithm:

1. Start.
2. Input a number n .

3. If $n \% 2 == 0$, print "n is even".

4. Else, print "n is odd".

5. Stop.