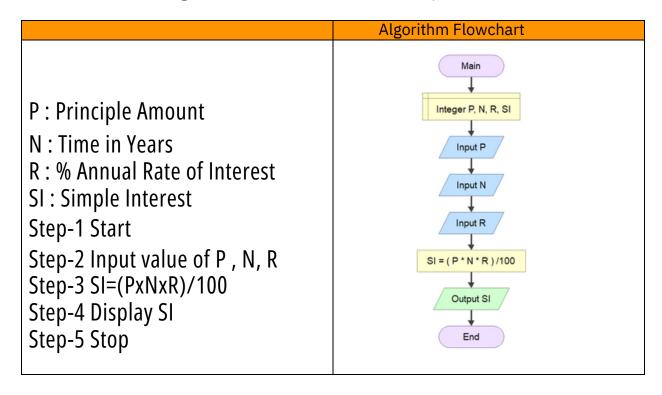
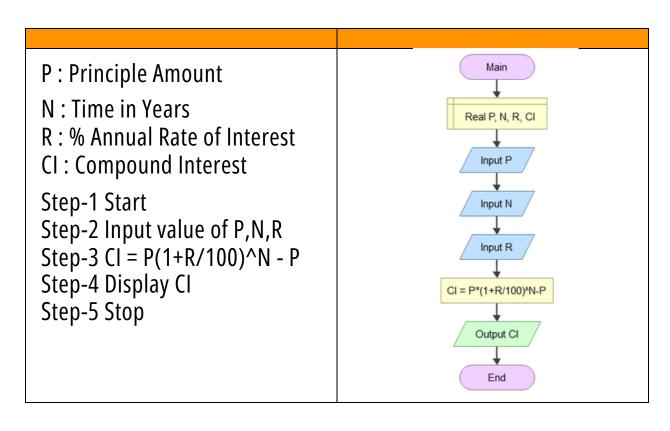
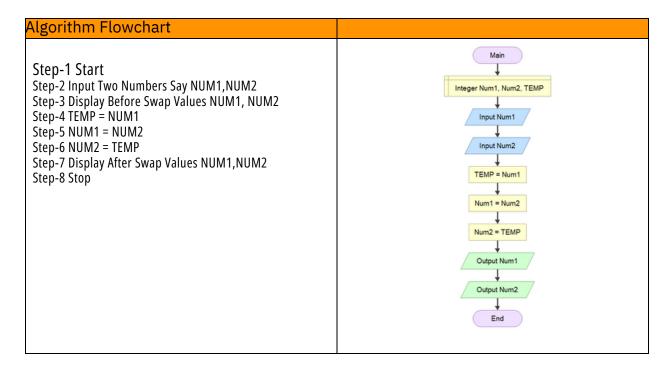
Exercise 1: Write an algorithm and a flowchart to find Simple Interest.



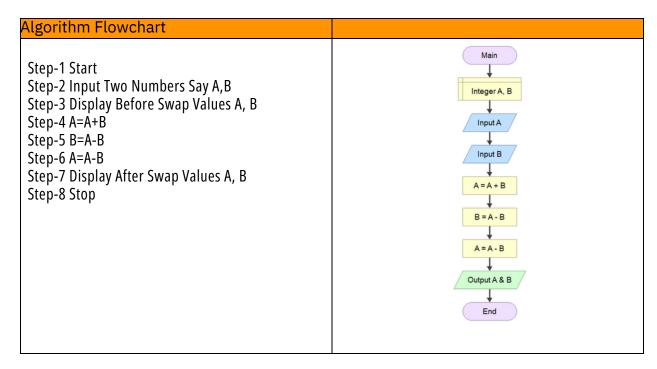
Exercise 2: Write an algorithm and a flowchart to find Compound Interest. Algorithm Flowchart



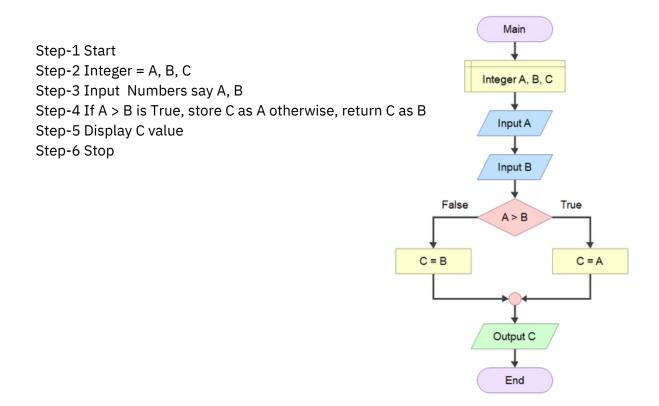
Exercise 3: Write an algorithm and a flowchart to swap two numbers with temporary variable.



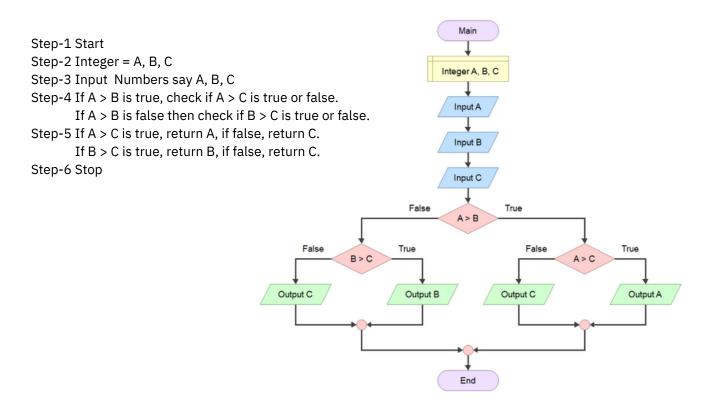
Exercise 4: Write an algorithm and a flowchart to swap two numbers without temporary variable.



Exercise 5: Write an algorithm and a flowchart to find the largest of two numbers.



Exercise 6: Write an algorithm and a flowchart to find the largest of three numbers.



## Exercise 7: Write an algorithm and a flowchart to find even numbers between 1 to 50.

Step-1 Start

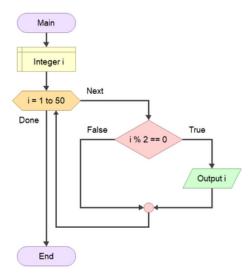
Step-2 Integer = I

Step-3 i equals 1. If i is between 1 and 50, i % 2 == 0 is satisfied.

Step-4 If i % 2 == 0 is true then return i and repeat step 3.

Step-5 If step 3 conditions are not met, proceed to the next step.

Step-6 Stop



## Exercise 8: Write an algorithm and a flowchart to find sum of series 1 + 2 + 3 + ... + N.

Step-1 Start

Step-2 Integer = i, n, sum

Step-3 sum = 0

Step-4 Input Numbers say n

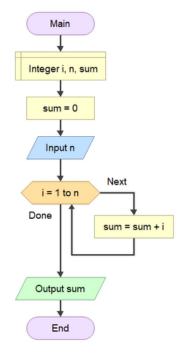
Step-5 i equals 1. If i is between 1 and n

Step-6 sum = sum + i

Step-7 Go back and do step 5 until the condition is not true.

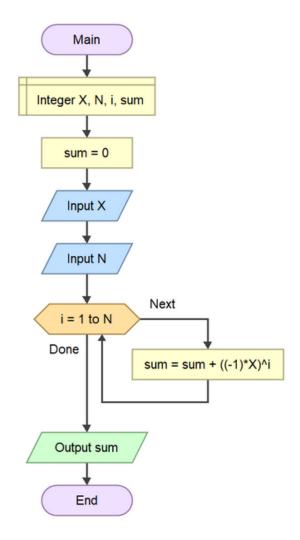
Step-8 Display sum value

Step-9 Stop



## Exercise 9: Write an algorithm and a flowchart to find sum of series $1 - X + X^2 - X^3 + ... + X^N$

Step-1 Start
Step-2 Integer = X, N, i, sum
Step-3 sum = 0
Step-4 Input Numbers say X, N
Step-5 i equals 1. If i is between 1 and N
Step-6 sum = sum + ((-1)\*X)^i
Step-7 Display sum value
Step-6 Stop



Exercise 10: Write an algorithm and a flowchart to print multiplication table of a number.

Step-1 Start

Step-2 Integer = A, B, C, D

Step-3 A = 1

Step-4 Input Numbers say C, D

C = number to multiply

D = number to multiply

Step-5 i equals 1. If i is A <= D

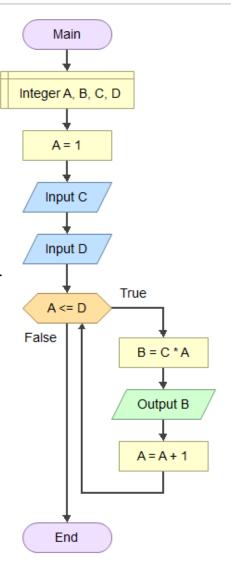
Step-6 B =  $C \times A$ 

Step-7 Display B value

Step-8 A = A + 1

Step-7 Go back and do step 5 until the condition is not true.

Step-6 Stop



Exercise 11: Write an algorithm and a flowchart to find sum of series 1 - X + X^2 - X^3 + ... + X^N

Step-1 Start

Step-2 Integer = X, N, i, sum

Step-3 sum = 0

Step-4 Input Numbers say X, N

Step-5 i equals 1. If i is between 1 and N

Step-6 sum = sum +  $((-1)*X)^i$ 

Step-7 Go back and do step 5 until the condition is not true.

Step-8 Display sum value

Step-9 Stop

