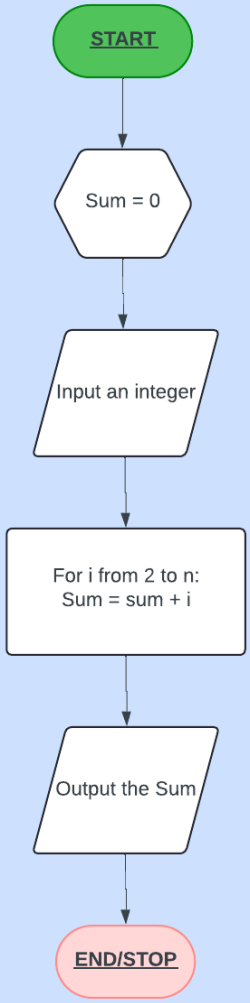
1. Design an algorithm and the corresponding flowchart for finding the sum of the numbers 2, 4, 6, 8, ..., n (output: Algorithm and Flowchart)

ALGORITHM:

Start
Sum = 0
Input n
For i from 2 to n (incrementing (++) by 2)
Sum = Sum + i
Output the sum
Stop

FLOWCHART:



2.) Write an algorithm to read 100 numbers and then display the sum.

ALGORITHM:

Start
Counter = 0, Sum = 0
Input I value
Counter = counter + 1
Sum = sum + 1
If counter < 100, repeat 3 step to 5 step
Display the sum
End

3.) Write an algorithm to read two numbers then display the largest.

ALGORITHM:

Start
Input number 1
Input number 2
If number 1 > number 2, then display "number 1", else "number 2"
End

4.) Write an algorithm to read two numbers then display the smallest

ALGORITHM:

Start
Input number 1
Input number 2
If number 1 > number 2, then display "number 2", else "number 1"
End

5.) Write an algorithm to read three numbers then display the largest.

ALGORITHM:

Start
Input number 1
Input number 2
Input number 3
If number 1 > number 2 and number 1 > number 3 display "number 1 value", else proceed to step 6
if number 2 > number 1 and number 2 > number 3 display "number 2 value", else process to step 7
display "number 3 value"
End

6.) Write an algorithm to read 100 numbers then display the largest.

ALGORITHM:

Start
Integer must 1 to 100
Input integer 1 =
Input integer 2 =
If integer 1 > integer 2, display "integer 1 value", else display "integer 2 value"
End

Honor pledge:

"I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own."