Activity No. 1.1	
Using Pseudo-code Statements and Flowchart Symbols	
Course Code: CPE007	**Program:** Computer Engineering
Course Title: Programming Logic and Design	**Date Performed: 8/5/25**
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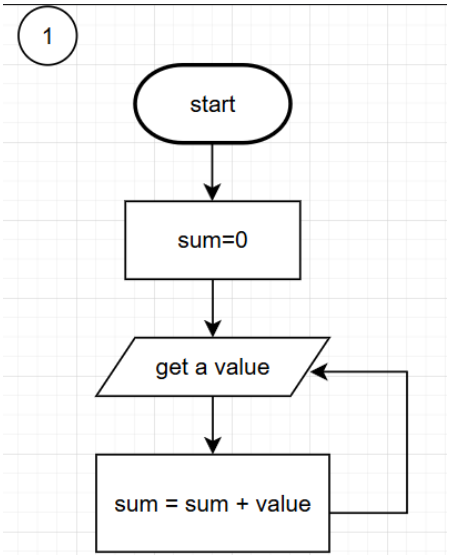
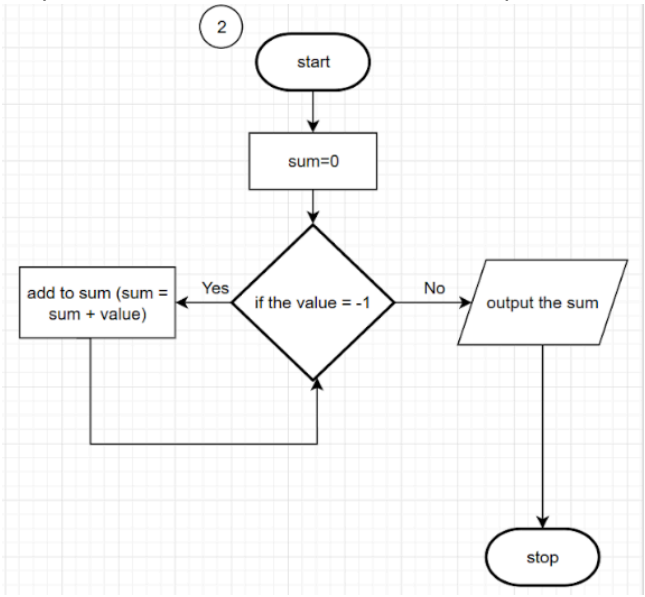
6. Output

Problem 1: (Infinite Algorithm) The problem with this algorithm is that, some of the steps appear more than once, i.e. step 5 get second number, step 7, get third number, etc. One could shorten the algorithm or flowchart as follows:



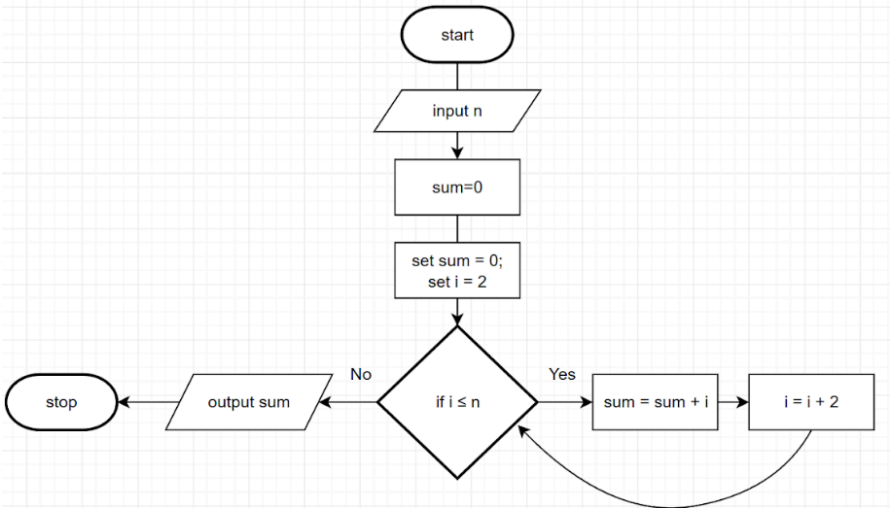
Problem 2: (Finite Algorithm) The new list of numbers is given as 26, 49, 498, 9387, 48962, 1, -1. The value –1 is a unique number since all other numbers are positive. This means that the procedure will stop once -1 is encountered.



7. Supplementary Activity

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

start
input n value
set sum = 0
set i = 2
if i ≤ n
then sum = sum + i
i = i + 2
else output sum
stop



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

start
(sum = 0)
(count = 1)
if count ≤ 100
then input number
sum = sum + number
count = count + 1
else output sum
stop

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

start
(1st value = 0)
(2nd value = 0)
input 1st value
input 2nd value
if 1st value > 2nd value
then output 1st value
else output 2nd value
stop

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

start

(1st value = 0)
(2nd value = 0)
input 1st value
input 2nd value
if 1st value < 2nd value
then output 1st value
else output 2nd value
stop

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

start
input number1
input number2
input number3
set largest = number1
if number2 > largest
then set largest = number2
if number3 > largest
then set largest = number3
output largest
stop

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

start
set largest = number
set count = 1
input number
if count ≤ 100
then input number
if number > largest
then set largest = number
set count = count + 1
else output largest
stop

8. Conclusion

Concluding this activity, I have learned how algorithms input, process, move, and output data with pseudo-code statements and flowcharts. The basic symbols of the flowcharts enable me to understand how code can function in a visual perspective. This activity and discussion in the past weeks also taught me how to write pseudocode and create flowcharts that a coder can clearly comprehend.

9. Assessment Rubric