

Activity No. 1

Hands-on Activity 1.1: Using Pseudo-code Statements and Flowchart Symbols

Course Code: CPE 007

Program: Computer Engineering

Course Title: Data Structures and Algorithms

Date Performed: Aug 1, 2025

Section: CPE11S1

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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:

Start

Sum=0

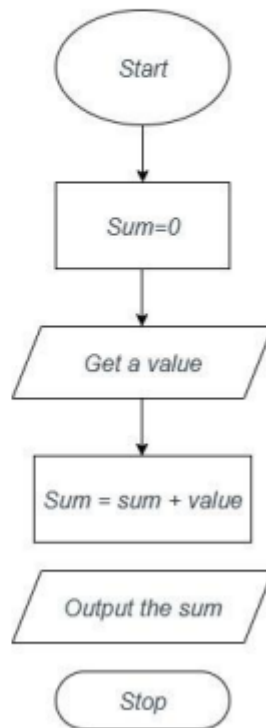
Get a value

Sum = sum + value

Go to step 3 to get the next value

Output the sum

Stop



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.

Start

Sum=0

Get a value

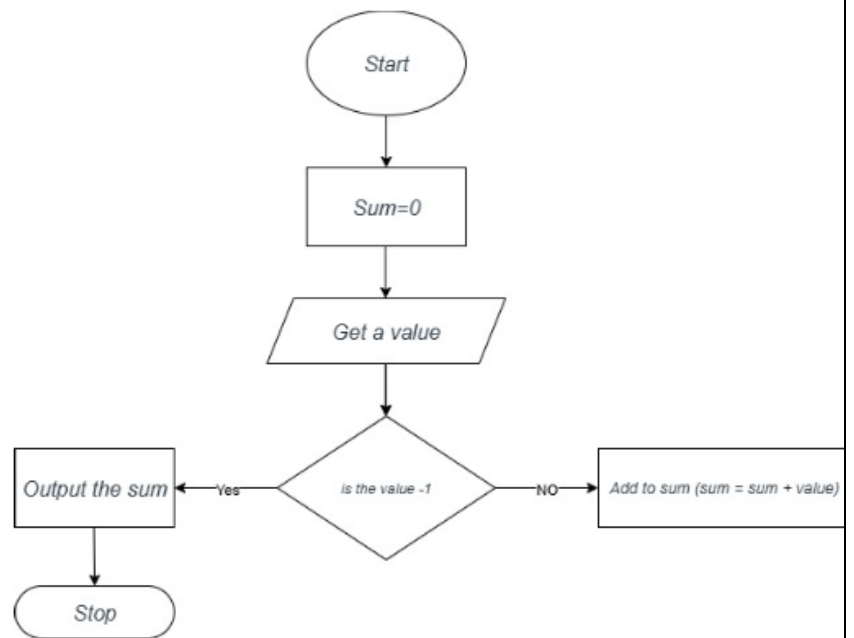
If the value = -1, go to step 7

Add to sum (sum = sum + value)

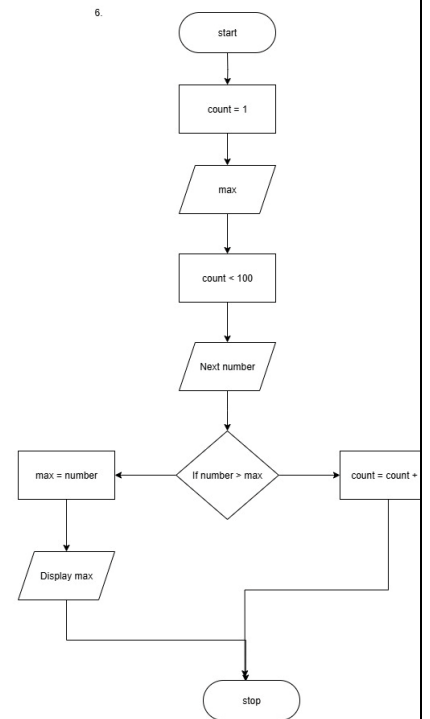
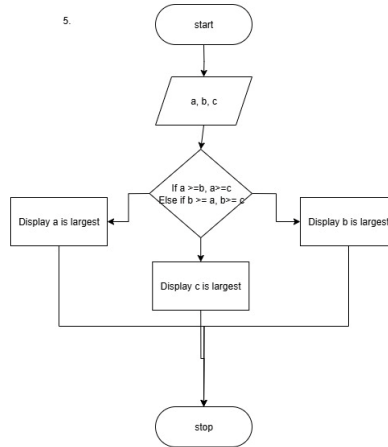
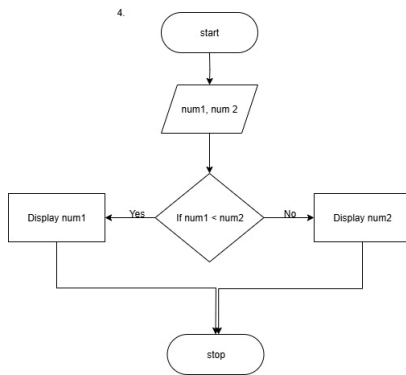
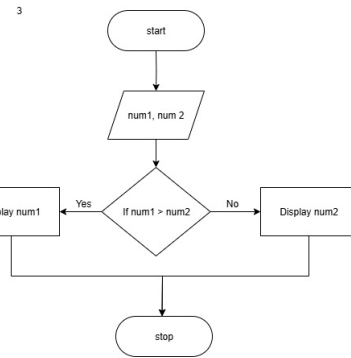
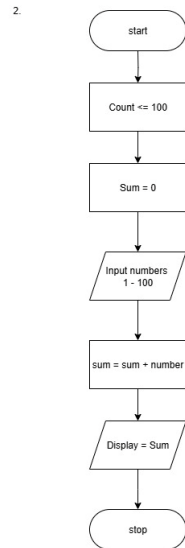
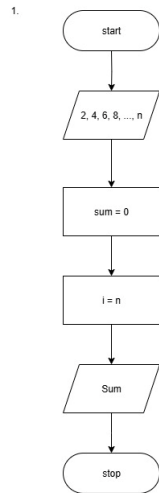
Go to step 3 to get the next value

Output the sum

Stop



7. Supplementary Activity



8. Conclusion

9. Assessment Rubric

Rubric for SO 7 (1)							
Criteria	Ratings						Pts
SO 7 PI 1 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Educational interests and pursuits exist and flourish outside classroom requirements, knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good Educational interests and pursuits exist and flourish outside classroom requirements, knowledge and/or experiences are pursued independently	4 pts Satisfactory Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor Relies on classroom instruction only	1 pts Very Poor No initiative or interest in acquiring new knowledge	6 pts
SO 7 PI 2 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Completes an assigned task independently and practices continuous improvement	5 pts Good Completes an assigned task without supervision or guidance	4 pts Satisfactory Requires minimal guidance to complete an assigned task	3 pts Unsatisfactory Requires detailed or step-by-step instructions to complete a task	2 pts Poor Shows little interest to complete a task independently	1 pts Very Poor No interest to complete a task independently	6 pts

[illegible]