

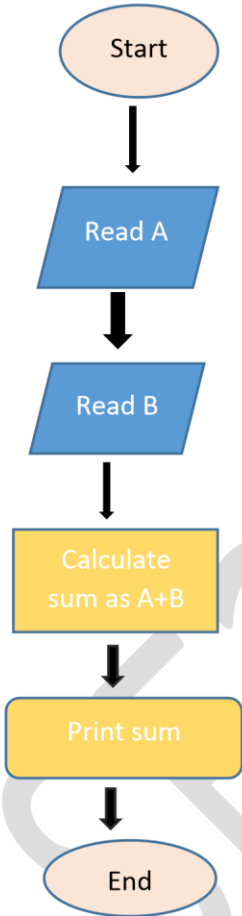
PROGRAMMING

FUNDAMENTALS

Assignment 01

Question :1

Differentiate between Pseudocode , Algorithm and Flow Chart with examples ?

Flow Chart	Algorithm	Pseudocode
Definition: A diagram of the sequence of movements or actions of people or things involved in a complex system or activity.	Definition: A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.	Definition: A notation resembling a simplified programming language, used in program design
Flow Chart is a pictorial representation of an algorithm	An Algorithm is used to develop a computer program	Pseudocode is an informal high-level description of an algorithm
Example:  <pre> graph TD Start([Start]) --> ReadA[/Read A/] ReadA --> ReadB[/Read B/] ReadB --> Calculate[Calculate sum as A+B] Calculate --> Print[Print sum] Print --> End([End]) </pre>	Example: Write an algorithm to add two numbers entered by the user. Step 1: Start Step 2: Declare variables num1 , num2 and sum. Step 3: Read values num1 and num2. Step 4: Add num1 and num2 And assign the result To sum. $Sum \leftarrow num1 + num2$ Step 5: Display sum Step 6: Stop	Example: If student's grade is greater than or equal to 60 print "passed" Else Print "failed"

