

# **SNS COLLEGE OF TECHNOLOGY**

STE

Coimbatore-36. An Autonomous Institution

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### **COURSE NAME : 23CST101– PROBLEM SOLVING & C PROGRAMMING**

### I YEAR/ I SEMESTER

## **UNIT – I INTRODUCTION TO PROBLEM SOLVING TECHNIQUES**

**Topic: Notation (Pseudo Code)** 

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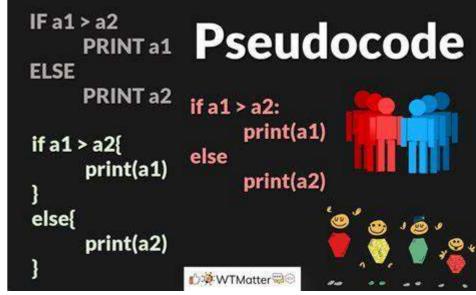
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#### What is Pseudo Code?

- Pseudo code consists of short, readable and formally styled English languages used for explain an algorithm.
- It does not include details like variable declaration, subroutines.
- It is easier to understand for the programmer or non programmer to understand the general working of the program.
- It is not a machine readable
- Pseudo code can't be compiled and executed.
- No standard syntax.







#### Guidelines for writing pseudo code:

- Write one statement per line
- Capitalize initial keyword
- End multiline structure
- Keep statements language independent

#### Common keywords used in pseudocode

*begin ... end*: These keywords are used to start and finish pseudocode. Begin is the first line and end is the last line of pseudocode.

accept: This keyword is used to obtain an input from a user.

display: This keyword is used to present a result or an output.

if ... else ... endif: These keywords are used in decision-making.

//: Comment

Do ... while, for ..., repeat ... until: Represent loop





**Example for Sequence Method:** 

#### To find sum of two numbers

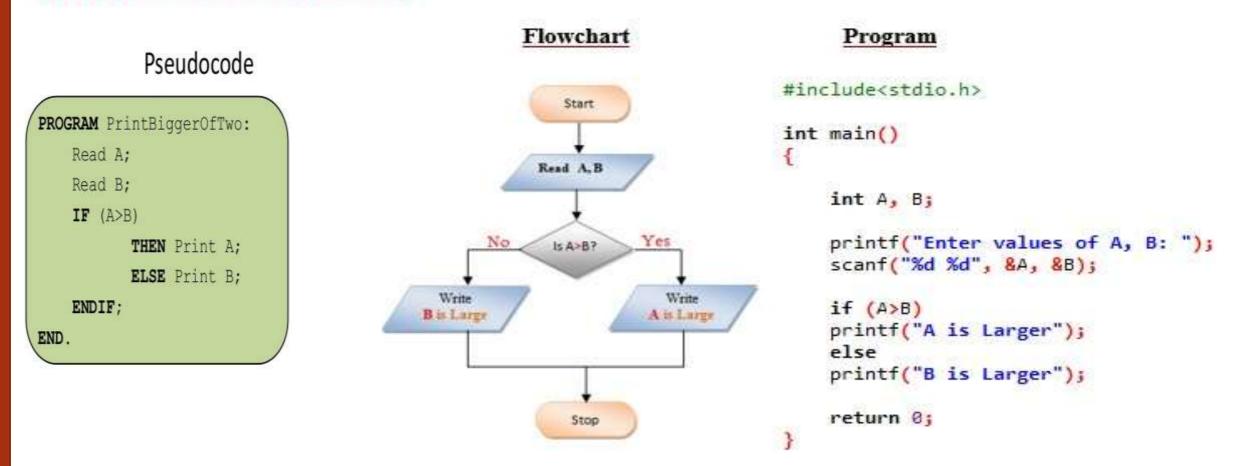
Pseudo code	Flowchart	Program
BEGIN	Start	#include <stdio.h></stdio.h>
GET a,b		<pre>int main() {</pre>
ADD c=a+b	Read a, b	int a, b, c;
PRINT c		<pre>printf("Enter value of a: "); scanf("%d", &amp;a);</pre>
END	c = a + b	<pre>printf("Enter value of b: "); scanf("%d", &amp;b); c = a+b;</pre>
	Write c	printf("Sum of given two numbers is: %d", c);
	*	return 0;
	Stop	





Example for Selection Method:

## **Greatest of two numbers**

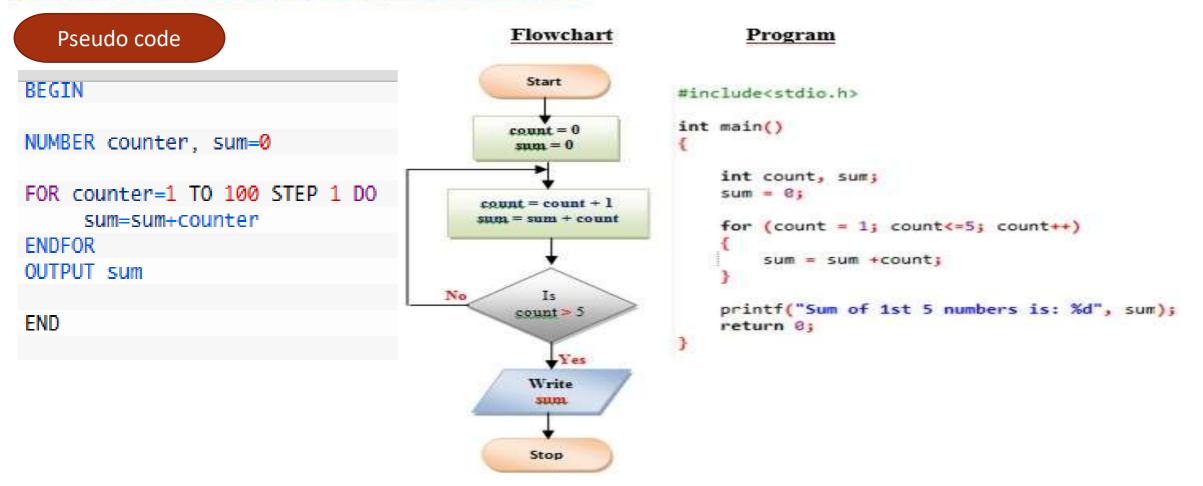






#### **Example for Iteration Method:**

#### Find the Sum of First Five Natural Numbers





# Comparisons



Algorithm	Flowchart	Pseudo code
An algorithm is a sequence of instructions used to solve a problem	It is a graphical representation of algorithm	It is a language representation of algorithm.
User needs knowledge to write algorithm.	not need knowledge of program to draw or understand flowchart	Not need knowledge of program language to understand or write a pseudo code.







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