

SNS COLLEGE OF TECHNOLOGY

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)

Mrs.A.Indhuja

Assistant Professor

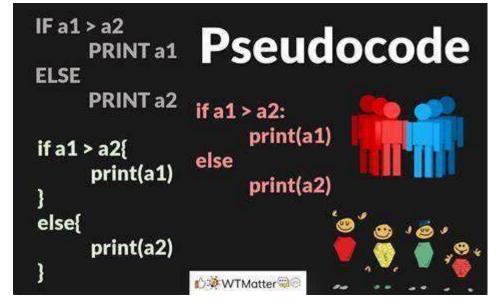
Department of Computer Science and Engineering





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



Pseudo Code



Example for Sequence Method:

To find sum of two numbers

Pseudo code	Flowchart	
BEGIN	Start	#i
GET a,b		in {
ADD c=a+b	Read a, b	8
PRINT c		
END	c = a + b	
	Write e	
		re
	Stop	}

	Program
in	clude <stdio.h></stdio.h>
nt	<pre>main()</pre>
5	int a, b, c;
	<pre>printf("Enter value of a: "); scanf("%d", &a);</pre>
	<pre>printf("Enter value of b: "); scanf("%d", &b); c = a+b;</pre>
	<pre>printf("Sum of given two numbers is: %d", c);</pre>
eti	urn 0;

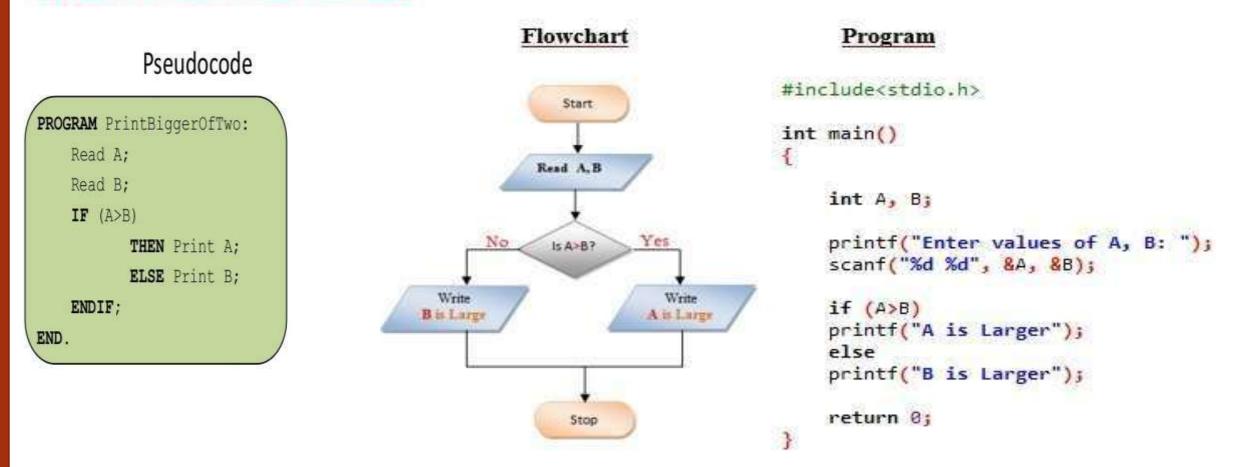


Pseudo Code



Example for Selection Method:

Greatest of two numbers



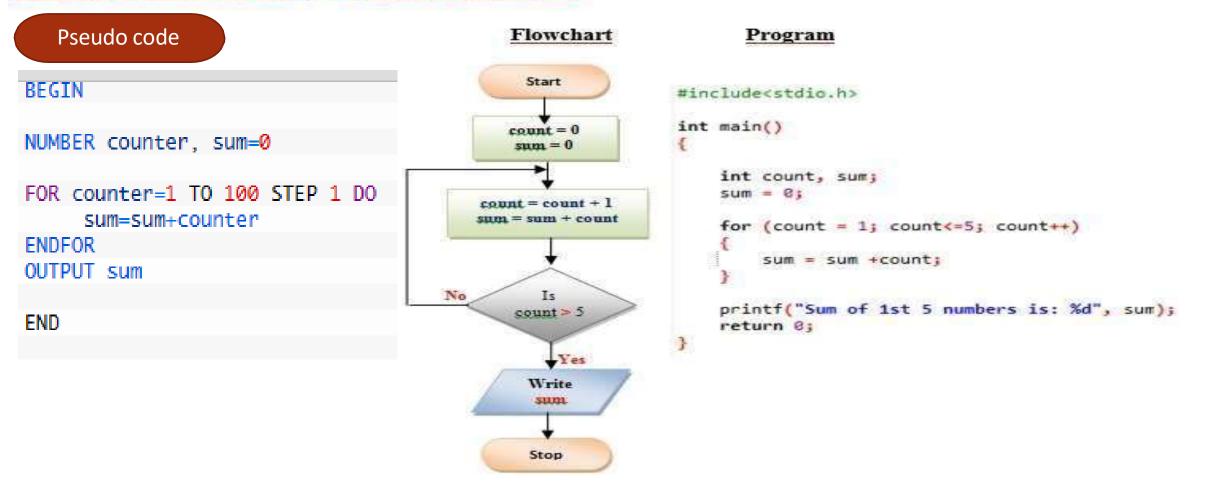


Pseudo Code



Example for Iteration Method:

Find the Sum of First Five Natural Numbers







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.







Tax of the set