



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

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Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

COURSE NAME : 23ITT101- PROBLEM SOLVING & C PROGRAMMING

I YEAR /I SEMESTER

Unit 1- Introduction to Problem Solving Techniques

Topic: Pseudo Code

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Pseudocode



- **pseudocode** is a method of writing an **algorithm**.
- It cannot be compiled or run like a regular program.
- Pseudocode can be written how you want. But some companies use specific pseudocode syntax to keep everyone in the company on the same page.
- Syntax is a set of rules on how to use and organize statements in a programming language



Advantages of Pseudocode



- Improves the readability of any approach.
- It's one of the best approaches in the implementation of an algorithm.
- Acts as a bridge between the program and the algorithm or flowchart.
- The main goal of a pseudo code is to explain what exactly each line of a program should do,
- Hence making the code construction phase easier for the programmer.



Advantages of Pseudocode



How to write a Pseudo-code?

Example:

```
if "1"  
  
    print response  
  
        "I am case 1"  
  
if "2"  
  
    print response  
  
        "I am case 2"
```

Do's :

- . Use control structures
- . Use proper naming convention
- . Indentation and white spaces are the key
- . Keep it simple.
- . Keep it concise.

Don'ts :

- . Don't make the pseudo code abstract.
- . Don't be too generalized.



Example

Sum Of Two Numbers()

Begin

Set sum =0;

 Read: a, b;

 Set sum = a + b;

 Print sum;

End



ALGORITHM VERSUS PSEUDOCODE

ALGORITHM

An unambiguous specification of how to solve a problem

Helps to simplify and understand the problem

PSEUDOCODE

An informal high-level description of the operating principle of a computer program or other algorithm

A method of developing an algorithm

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PSEUDOCODE VERSUS FLOWCHART

PSEUDOCODE

An informal high-level description of the operating principle of an algorithm

Written in natural language and mathematical notations help to write pseudocode

FLOWCHART

A diagrammatic representation that illustrates a solution model to a given problem

Written using various symbols

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Thank You