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## Complete Tutorial for Pseudocode

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First of all I have to share a quick knowledge about the Data structure and Algorithms. If you want to know about the [Data Structure](#) then [click on this link](#) and for the [Algorithms](#) [click on this link](#). Now apart from this let's talk about Pseudocode. In this Article I will share some points on What is Pseudocode, Advantages and Disadvantages of Pseudocode and few more things.

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# What is Pseudocode?

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## What Is Pseudo-Code?

Pseudo code is an outline of a program written in a way that it can be easily converted into a computer programming language

It mixes natural language with standard programming language constructs, such as

- Expressions:  $c = a + b$
- Method Declarations: Algorithm name (param1,param2,.....)
- Decision Structures: if condition then true-actions [else false-actions].
- While-Loops: While condition do actions. We use indentation to indicate what actions should be included in the loop actions.
- Array Indexing:  $A[i]$  represents the  $i$ th cell in the array  $A$ . The cells of an  $n$ -celled array  $A$  are indexed from  $A[0]$  to  $A[n-1]$ .

Pseudocode is an informal manner of explanation of programming which does not need a rigid syntax of language or technical aspects. It is used to create a contour or an approximate draught of a program. Pseudocode describes the flow of a program and excludes the underlying information. System designers generate pseudo code to ensure programmers comprehend and align code with the needs of a software project.

Pseudocode is a word widely used in algorithm-based professions and in programming. It is a way that enables the programmer to represent an algorithm's implementation. We could just claim it's a cooked algorithm representation. Algorithms are often expressed as pseudo codes because they may be read by programmers regardless of their experience and background. As the name implies, pseudo code is a bogus code or code representation that even a lawyer with little experience of the programming of school level may understand.

## Which are the Things we have to focus in Pseudocode?

### Top Tips

- To write and understand pseudocode you need to understand real code first → learn the basics
- Make it look like real code but **SIMPLIFY IT**
- Practise it! Do past paper questions!
- Be consistent with your pseudocode

```
abc ← FALSE
name = John

if abc = false:
    PRINT("Untrue")
endif

WHILE (name == John) DO:
    output name
```

It is essentially an algorithm that is stated in plain English in the form of annotations and information. It has no programming language-like grammar and hence cannot be compiled or constructed by the computer. Now, you think what is Algorithm, An ordered logical series of events or a particular issue approach is the algorithm. To solve a problem, a programmer implements an algorithm. Algorithms are expressed using natural, yet somewhat technical, linguistic comments.

### What are the Advantages of Pseudocode?

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## Advantages of pseudo code

- Writing of pseudocode involves much less time and effort than drawing an equivalent flowchart.
- Converting a pseudo code to a programming language is much more easier as compared to converting a flowchart.
- It is easier to modify the pseudocode of a program logic when program modifications are necessary.

Improves any approach's readability. This is one of the finest ways to start the algorithm implementation.

It acts as a bridge to the algorithm or flowchart. It also acts as a rough manual so that one developer's software may be readily understood by writing the pseudo code. Documentation is an important method in industry. A pseudo-code is essential to this.

The fundamental objective of a pseudo code is to describe exactly what every line of a programmer should accomplish, making it easy for the programmer to build the code.

### What are the Disadvantages of Pseudocode?

## The Disadvantages of Pseudo Code

- The disadvantages of pseudo code may start with its lack of standards.
- One person's logic instructions may not seem as logical to the next.
- Given the unstructured nature of pseudo code, it is few rules and is hard to standardize.
- Another disadvantage over other modeling tools like flowcharts may be pseudo codes inability to show logic flows or the bigger picture.
- Whereas flowcharts provide an overview of logic and can be understood at a higher level, pseudo code is far more detail oriented and requires more concentration and practice to see the bigger picture.

Pseudocode does not provide the display the programming logic visually.

There is no correct way to write a pseudo code format.

They require further documentation to maintain in pseudo code.

Many companies follow their own standard to write the pseudocode because pseudocode don't have any proper standard.

### Why Pseudocode is Important?



# WHY IS PSEUDOCODE IMPORTANT?

- **A great way to learn the importance of good pseudocode is to try writing instructions for something simple:**
  - How to make a sandwich, how to decorate a cake, how to plant a seed, etc.
  - Students should write the instructions and then the teacher should follow them.
  - Then compare the results.
- **Some examples of student responses for a peanut butter and jelly sandwich:**
  - Student 1 wrote: "Put the peanut butter on the bread". So the teacher placed the entire jar on the slices of bread.
  - Student 2 wrote: "Take bread and spread the peanut butter on it". So the teacher spread peanut butter on the entire loaf.
  - Student 3 wrote: "Take 2 slices of bread and spread peanut butter and jelly on them". So the teacher spread peanut butter and jelly on both sides of both slices.
- **Communicating instructions well is important! 😊**

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Pseudocode is not a real language of programming. It can not thus be compiled into a software executable. It is used to construct code for programmes in brief phrases or basic English syntaxes prior to it becoming a certain programming language. This is done to identify the flow errors in the highest possible level and comprehend the data flows that will be used by the final software. This helps undoubtedly to save time when conceptual problems are already fixed during real programming. To get the desired results for a program, you first gather the program description and functionality, then use pseudo code for creating statements. Detailed pseudocode is evaluated and validated according to design standards by the design team or programmers. Catching faults or incorrect program flows during the phase of pseudo code creation is useful since it is cheaper than catching them afterwards. Once the team accepts the pseudo code, it is written in a programming language using vocabulary and grammar. An effective core concept of an algorithm is the goal of employing pseudocode. It is used in the design of an algorithm with an outline of the program's structure before coding.

## How to write a Pseudocode?

### Sample Pseudocode

- Task: add two numbers
- Pseudocode:
  - Start
  - Get two numbers
    - Get first number
    - Get second number
  - Add them
  - Print the answer
  - End

Set up the task sequence and compose the pseudocode accordingly.

Start with a pseudo code statement that defines the main purpose or objective.

1. Use relevant norms for naming. The human propensity is following what we observe. If you pass a pseudo code through your coder, you will have to use the same technique, thus the name must be easy and unique.
2. Use suitable phrase boxes for techniques such as CamelCase, upper case for constants, and lower case for variables.





3. Develop everything in the real code that will happen. Do not abstract your pseudo code.
4. Use common programming structures like 'if', 'for' or 'while' the way we program it.
5. Make sure all portions of the pseudo code are full, finite and comprehensible.
6. Don't write the full programmatic pseudocode. Even for a tester or customer, it must be easy to grasp, thus do not include too many technical terminology.

## Pseudocode

- For example, for making a cup of tea:

```
Organise everything together;  
Plug in kettle;  
Put teabag in cup;  
Put water into kettle;  
Wait for kettle to boil;  
Add water to cup;  
Remove teabag with spoon/fork;  
Add milk and/or sugar;  
Serve;
```

**Example:-** let's take an Example and have a look at the code

```
1  // This program calculates the Lowest Common multiple  
2  // for excessively long input values  
3  
4  import java.util.*;  
5  
6  public class LowestCommonMultiple {  
7  
8      private static long  
9      lcmNaive(long numberOne, long numberTwo)  
10     {  
11  
12         long lowestCommonMultiple;  
13  
14         lowestCommonMultiple  
15             = (numberOne * numberTwo)  
16               / greatestCommonDivisor(numberOne,  
17                                         numberTwo);  
18  
19         return lowestCommonMultiple;  
20     }  
21  
22     private static long  
23     greatestCommonDivisor(long numberOne, long numberTwo)  
24     {  
25  
26         if (numberTwo == 0)  
27             return numberOne;  
28  
29         return greatestCommonDivisor(numberTwo,  
30                                         numberOne % numberTwo);  
31     }  
32     public static void main(String args[])  
33     {  
34  
35         Scanner scanner = new Scanner(System.in);  
36         System.out.println("Enter the inputs");  
37         long numberOne = scanner.nextInt();
```

```
38         long numberTwo = scanner.nextInt();
39
40         System.out.println(lcmNaive(numberOne, numberTwo));
41     }
42 }
```


PseudoCodeExample.java hosted with ❤️ by GitHub

view raw

## Conclusion:

This article shows the complete information and tutorial about the Pseudocode. What is Pseudocode, which are the advantage and disadvantage of Pseudocode, how to write and why Pseudocode is important which is very important to know about Pseudocode. Pseudocode is a very simple topic to understand but many problem were came if you don't know the basic concept of Pseudocode. I hope this article is helpful for you, all the things which I have mention that is my real experience which I have faced during my learning period so I thought I have to share my experience. Hoping this one is helpful for you. Thank you.

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