

Introduction to Programming

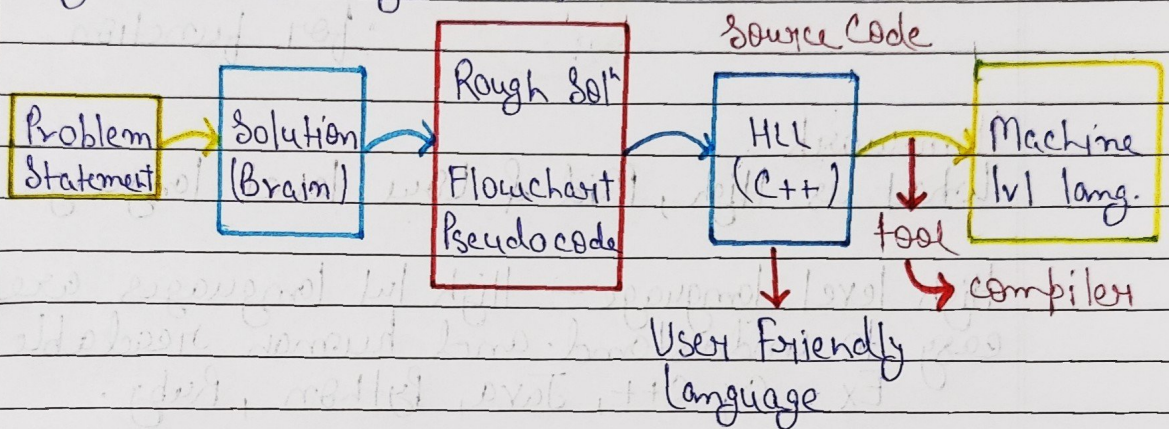
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Algorithm - A series of steps to solve a problem. Statement is called an Algorithm.

How to Approach a Problem?
Thought Process -

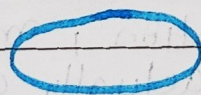
- Understand the Problem
- input values
- Logic Create / Algorithm



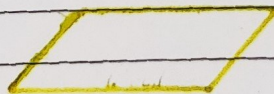
Pseudocode - Pseudocode is a plain text written in human-readable language to describe any problem statement logic.

Flowchart - Graphical Representation of an Algorithm.

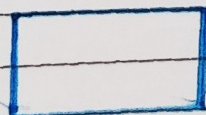
Flowchart Components -



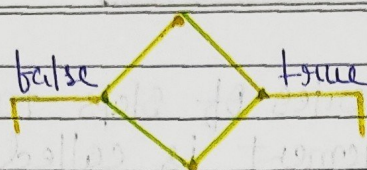
→ terminator
for start/end



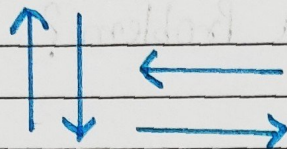
i/p - o/p
→ for read/print



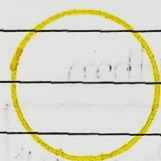
→ Process block
initialization/declaration



→ Decision Making Block - Takes Condition



→ Flow of execution



→ Connector for function

Homework

What is High, Mid & Low level language?

High level language - High lvl languages are very easy to understand and human readable.
Ex - C, C++, Java, Python, Ruby.

Low level language - They are also called machine level languages. Machine can easily understand it.
Ex - Machine language, Assembly language.

Mid level language - There is no concept of mid level languages. but C, C++ is a language which can perform both high and low lvl operations like bitwise operation, pointer manipulation, memory allocation etc. but C, C++ are actually a high lvl language.