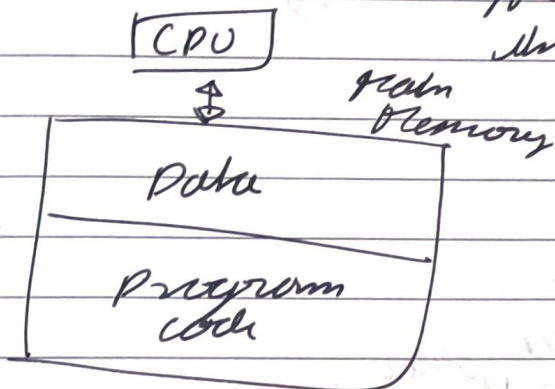


Data Structures and Algorithms

Intro

dr, prog play with data,
data organizing way during
execution of prog is called dr
efficient way
in prog.



Topics

- Arrays
- Vectors
- Linked list
- Stacks
- Queue
- Trees
- Graphs
- Hashing
- Recursion
- Sorting

Note:

① There are Physical dr, define how data is arranged in the memory

② Logical dr, arrangement + how they should be utilized

Why
dr?

Academic
+ Efficiency

Level of
study

- L1 what is how structure + features
- L2 depth of operations
- L3 programming design year on

lang. (any)

Abdul Bari course

course:
C C++

C++
Java
C#
Python
JS

STL collection for C++

//_

Recursion is not much useful for solving large sized problems as it uses stack extensively, still why study?

problem \neq programming
solving \rightarrow problem
 \rightarrow logic
 \rightarrow Recursion

* Algo. in coding, , Algo in VT other
 \Rightarrow Rel. to chr \Rightarrow Algo in depth
 & subdepth