**Why Data Structure ???????**

* Solving a problem **FAST** by occupying the optimum **MEMORY**.
* Fast and optimum memory means we have to do analysis on **time** and **space** complexity.

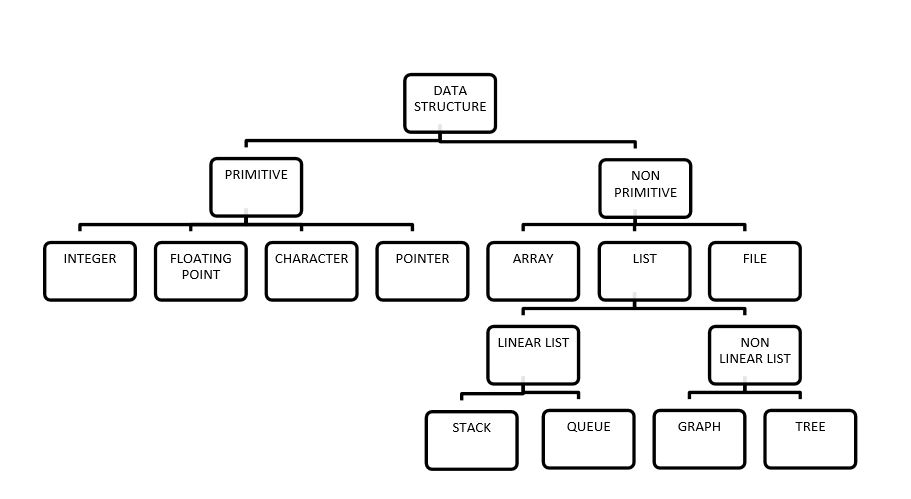
**Data Structure**

It is mathematical or logical model of a particular organizations of data items.

Data Structures study covers the following point.

* Amount of memory requires to store the data.
* Amount of time requires to process the data.
* Representation of data in memory.
* Operations performed on data.

**Classification of Data Structures**

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Primitive Data Structures

* Primitive data structures are basic structures and are directly operated upon by machine instructions.
* Eg. Integers, floats, character and pointers.
* Primitive data structures have different representations on different computers.