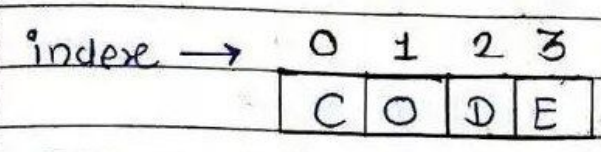
DATA STRUCTURES

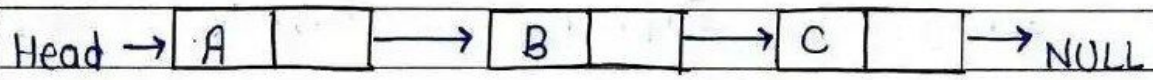
@Codes.learning

1. **Array** :- An Array is a Collection of Variables of the same type.



(fig. Array)

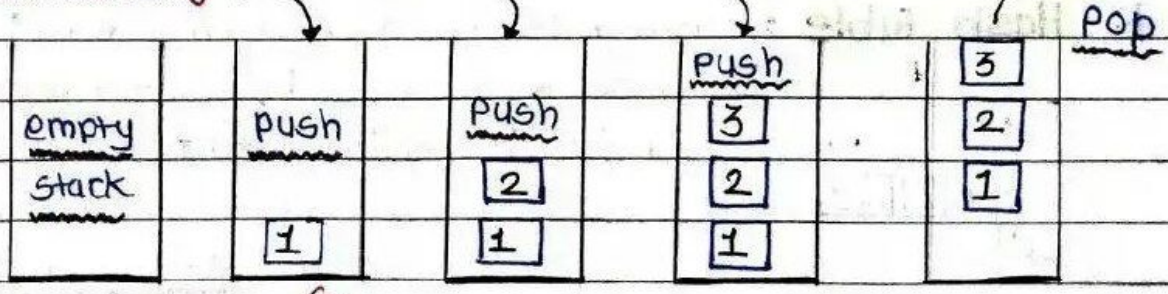
2. **Linked list** :- In linked list the elements are not stored at contigous memory location. The element in a linked list are linked using pointer as shown.



(fig. linked list)

3. **Stack** :- Stack follows particular order called LIFO (Last In first Out) in which the operations are performed.

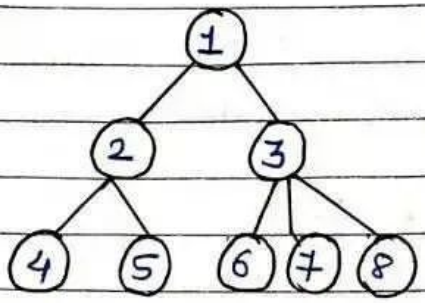
@Codes.learning



(fig. stack)

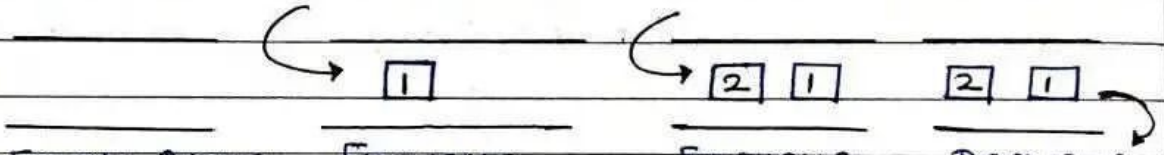
4. **Tree** :- A Tree is a non linear hierarchical data structure that consist of nodes connected by edge.

@Codes.learning



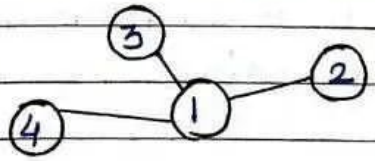
(fig. tree)

5. **Queue** :- Queue follows a particular order called FIFO (First In First Out) in which the operations are performed.



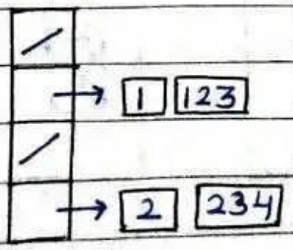
(fig. queue)

6. **Graph** :- A graph is a collection of nodes that have data and are connected to other nodes.



(fig. graph)

7. **Hash Table** :- Hash table represents data in form of key value in hash table. used for indexing data / values.



(fig. hash table)

@Codes.learning