ID: 190109196

NAME: ABDULLAH - AL- MAHMUD

Blatch.

There are 2 kinds of graph traversal.

- @ Breadth First seanch (BFS)
- 1 Depth First Search (DF5)

Breadth First search (BFS): stant several paths at a live and advance in each one step at a live. It actually implemented in queue method.

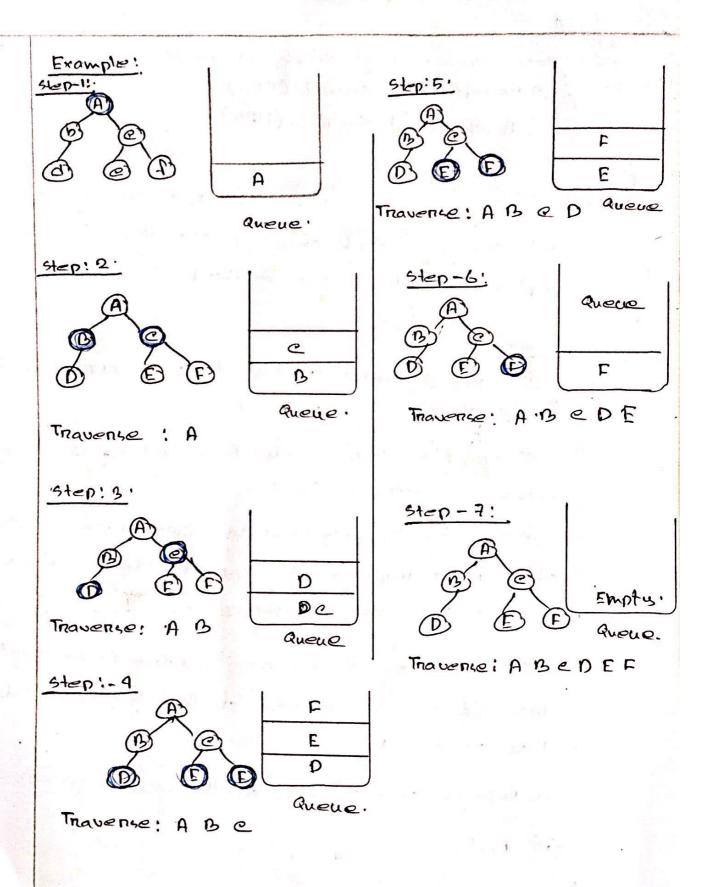
Algorithm!

O' Define a Queue of gize total number of ventices in the graph.

Oseleet a starting node A and put the it in queue & change its status in the a

which is at front of the queue, which is not visited & insort them into the queue.

- Maken there is no new venter to be visit from the venter at front of the anewe the delet that venter from the anews.
- O Repeat step 3 & 4, antill avene becomes empty
- M Exit.



(Dfs) Depth First search:

once a possible path is found.

continue the search until the end of the path. It is

implemented in stack method.

## Algorithm:

- 1. Initialize all nodes to the nearly state (STATUS=1)
- 2. Push the standing noise A outo stock and chang? It status to the waiting state (STATUS=?)
- 3. Repeat step 9 and 5 until stock is empty.
- 1. Pop the top nod. N of stock. Process N & change its status to the processed state (STATUS=3)
- F. Push dido the starck all the neighbors of N that is still in the neady state (STATUS=1) & change their status to the waiting state (STATUS=2)

6. Exit.

