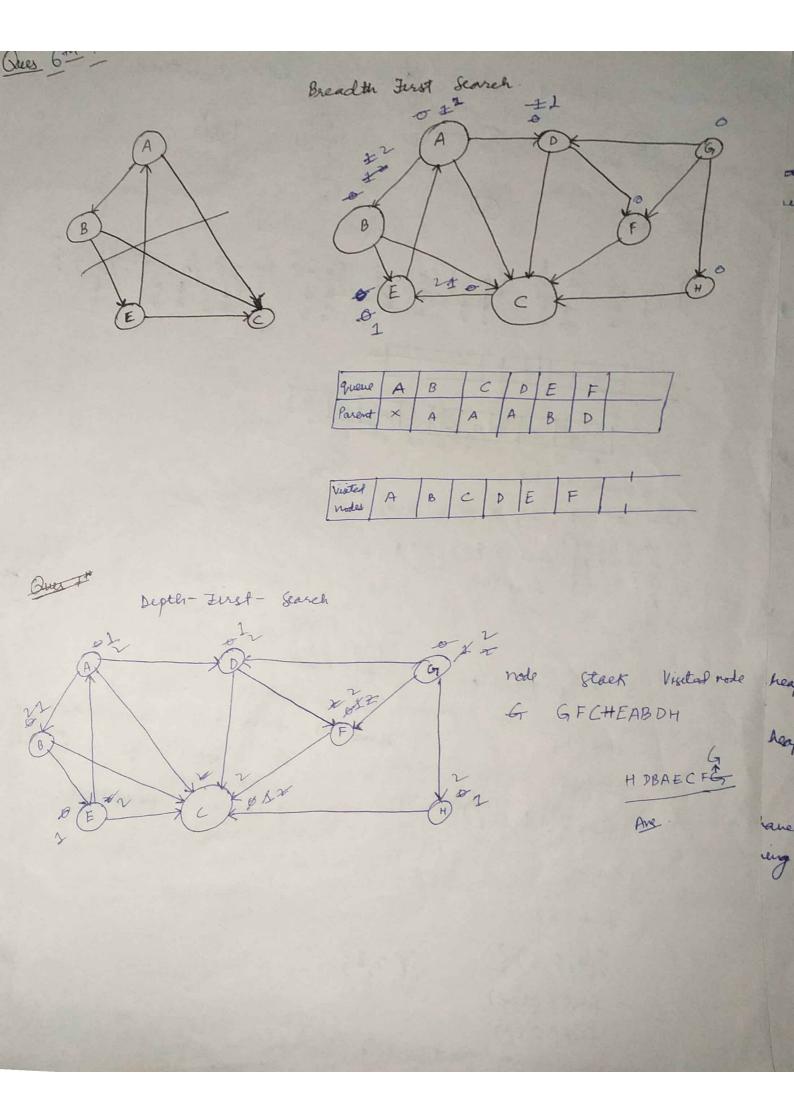
- 1. B.F.S Stands for Breadth feet First Search is a algorithm used for level traversal of the graph
- 2. It is used for finding Minimal Spanning Iree (M.S.7) in the graph.
- 3. Used for of & gotting to destination near to source node.
- 4. Uses stack greve data Structure.
- 5. It Used to find shortest distance in underected graph.

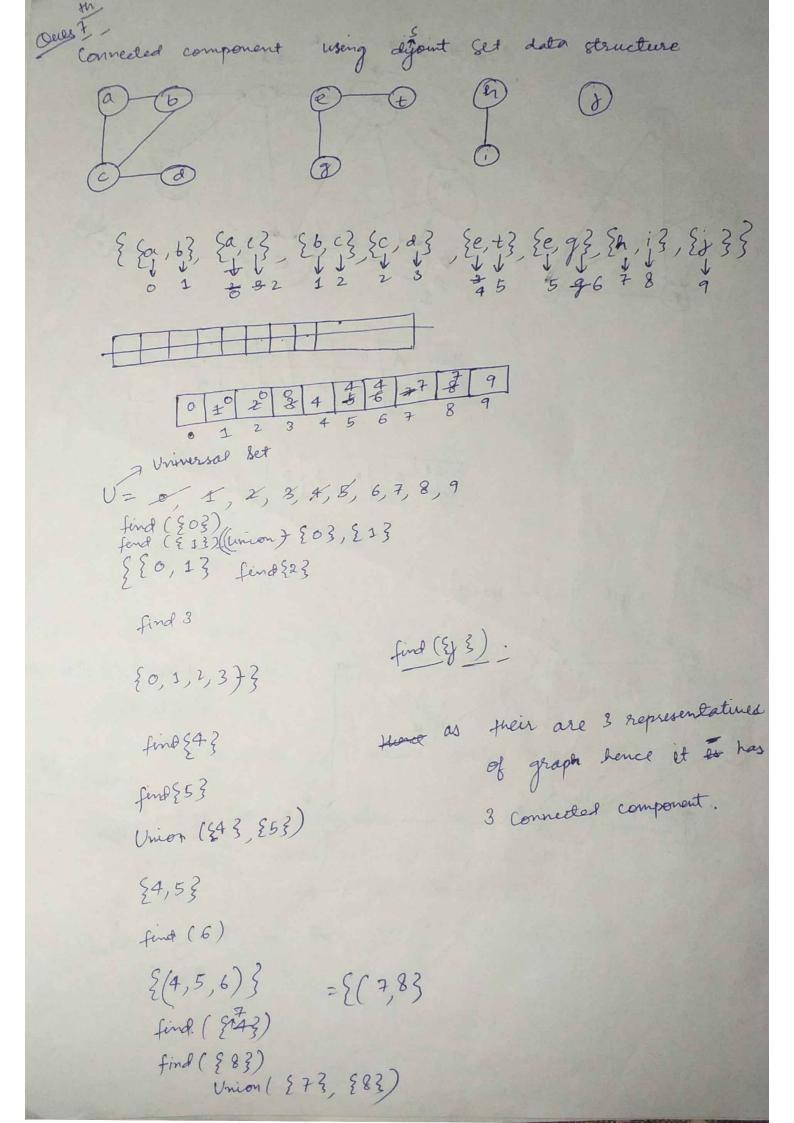
- 1. 2 D.F.s stands for Depth First Search es a algori-- then used in for level depth transcraf for the grap
- 2 It is used for finding principal spanning tree in the graph
- 3. Veed for getting to a distination for from Source rode.
- 6-7- test Uses stack data Streeture.
- 5. Used to find in searching algorethms.

Solution B. F. S wes queue data structure as we have to processes nearmost made inteally and B in D. F. S we have to processes farthest most node fint. Quest 2 2 2

Ques 3rd sense graph is a graph in which edges are close to maximal number of edge - whereast sparse graph is a graph in which edges are near to menimum number - Sporese graper can be have have disconnected edges We can detect cycle in graph using B.F.S and D.F.S by maintaining a parents list in which if a runnisted node try to visit a visited node it eignefy sinifies that graph has a cycle. Questi: syree dépont set data structure is used for Subgroup all connected on non convected wood, it can also be used to delect cycle in in a graph. Universal 8+ = { 1, 1, 1, 1, 1, 1} edge (1,2) $\begin{cases} 1,23 \Rightarrow 51 \\ \text{edgl}(2,3) \text{ find 2 linion get 1 and } 75 \end{cases}$ $\begin{cases} 5 \\ \end{cases}$ { 1, 2, 3 } find (5,6) (6) edge {5,63. edgl (3,43) find (3)

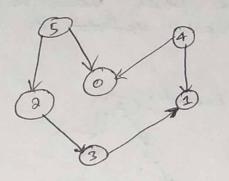
{ 1, 2, 3, 4 }





Que 8th

A type sorting that happens in periodal Acyclec graph DAG, is a linear ordering of vertices such that edge {u, v} of two vertices are is or haven having vertices such that a come before V in ordering.



D.F.S = 5,2,3, 1,0,4

theap data structure can be used to implement priority a greene as token whenever we men heap or Markheap add walk heap data structure 1 then it remains to in the configuration of mean men heap and make heap! Dykast Dijkestra algorithm, prems algorithm kruskal of the star have algorithm can use precity queue as It has have to hereater the the use lowest value and I maintaining lowest value in the array to well make selection officient.

Ques 10th -

Max Leap

is a heap data structure in which soot node well have greater value as compared to that cheldren

2. example: (30)

Min heap-

I The min min heaf

data structure

is heap 1 that structure

Such that hoot wode

the will will that

have lower value as

compared to them its children