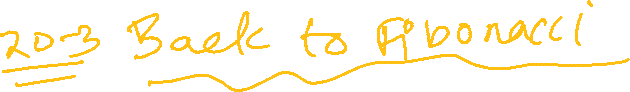
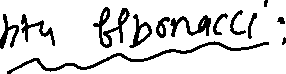
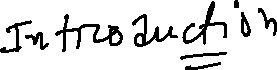
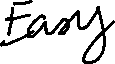
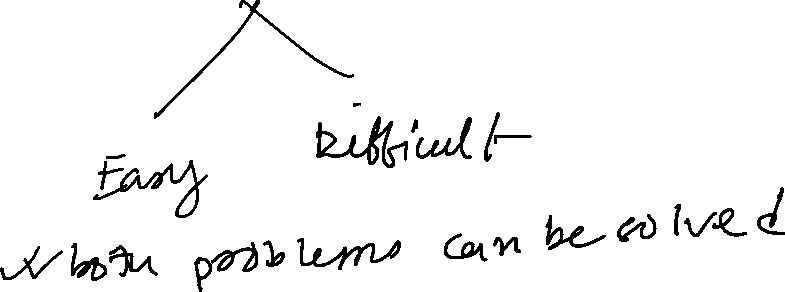
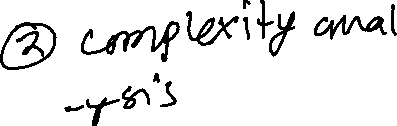
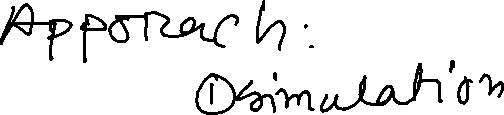
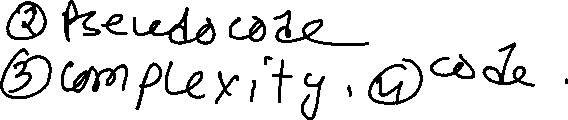
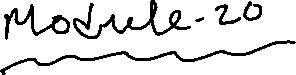
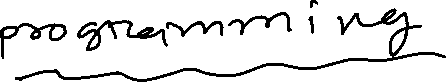
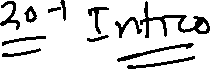
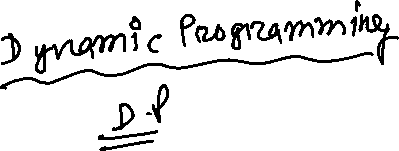
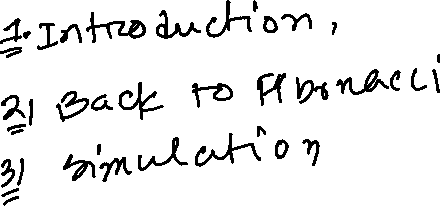
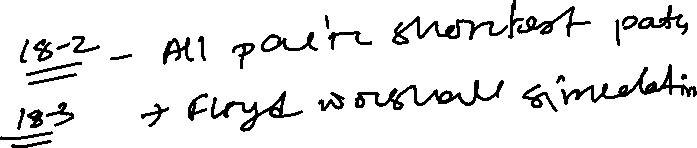
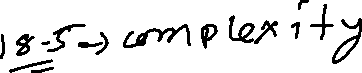
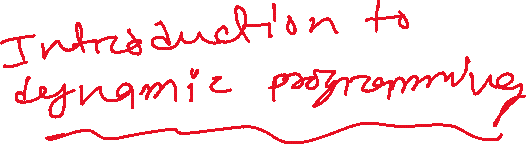
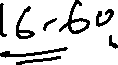
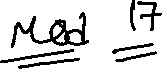
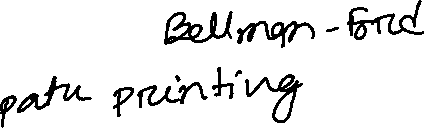
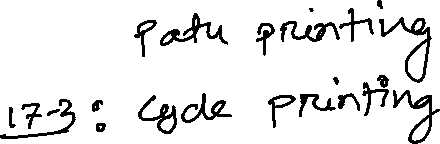
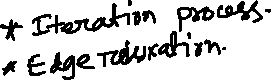
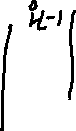
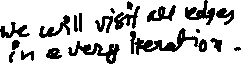
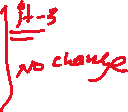
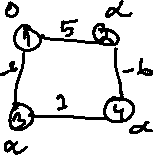
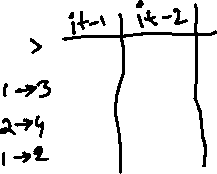
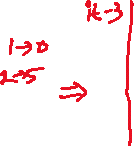
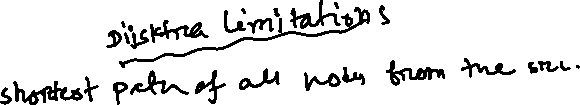
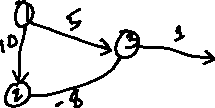
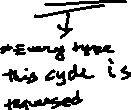
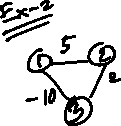
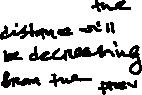
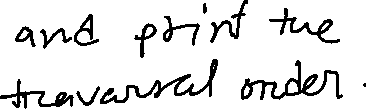
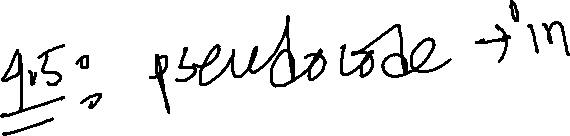
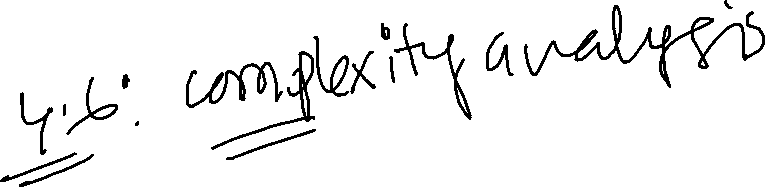
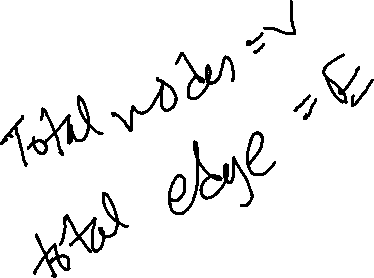
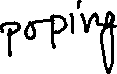
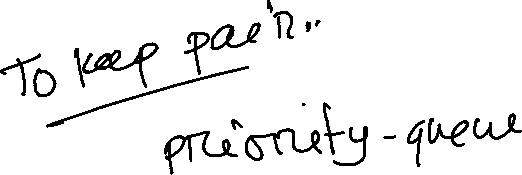
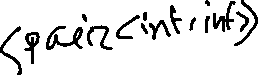
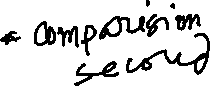
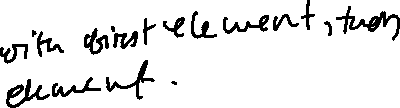
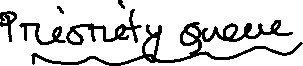
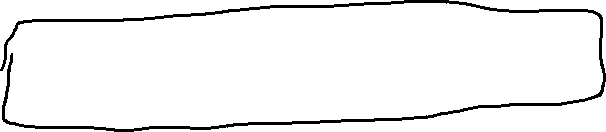
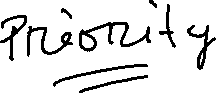
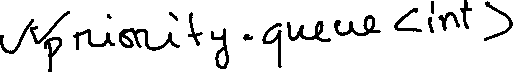
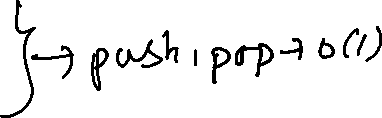
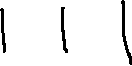
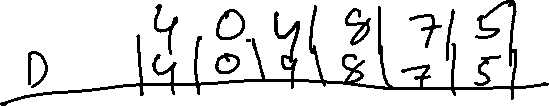
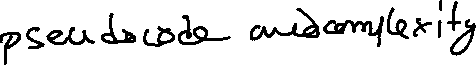
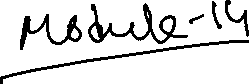
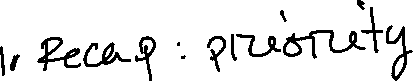
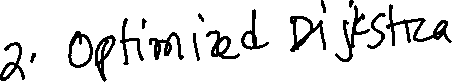
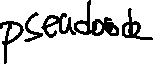
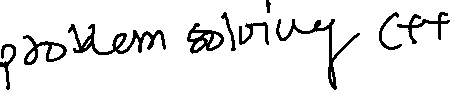
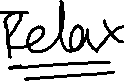
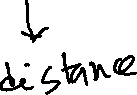
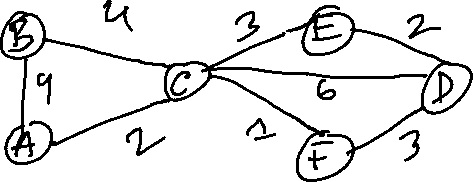
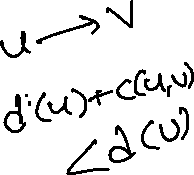
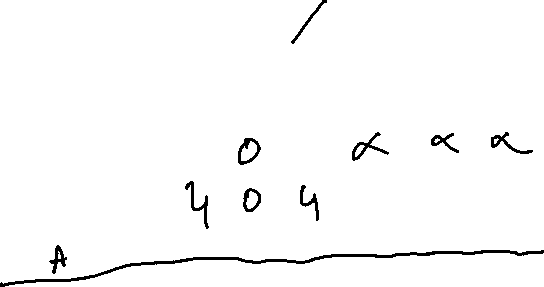
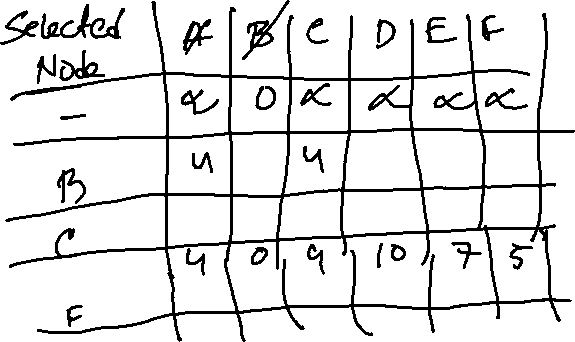
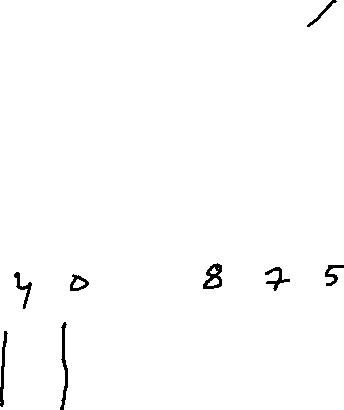
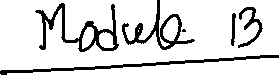
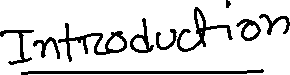
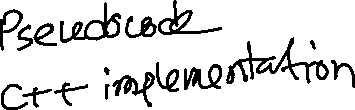
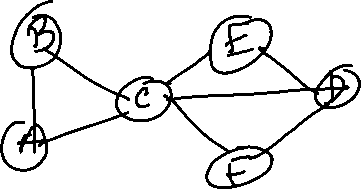
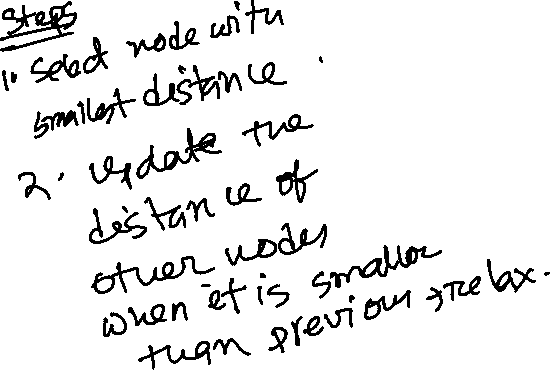
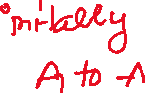
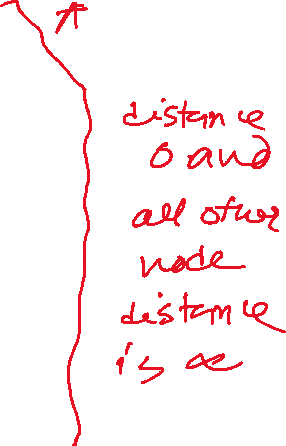
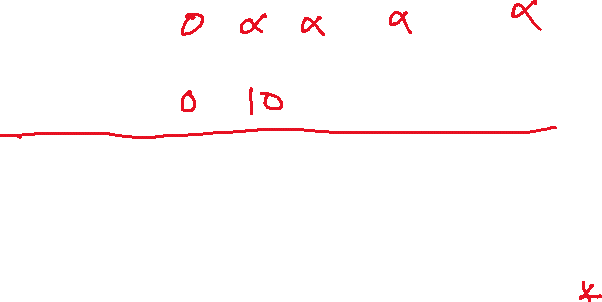
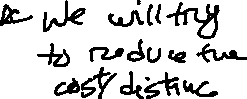
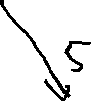
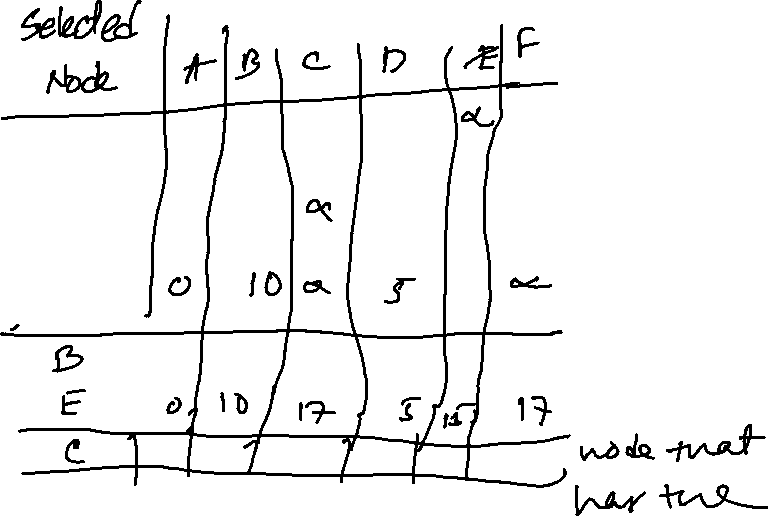
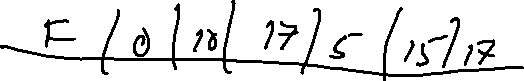
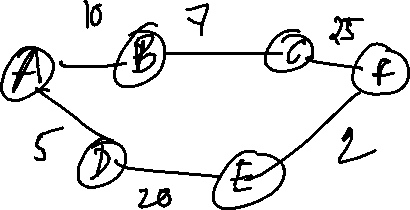
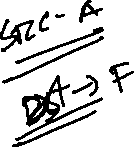
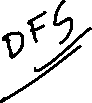
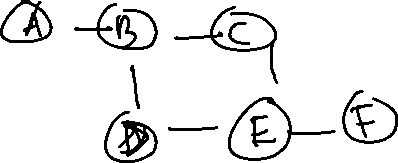
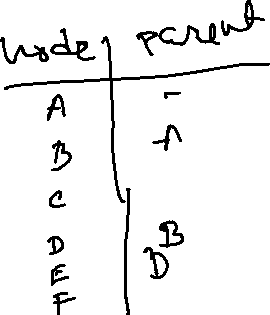
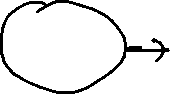
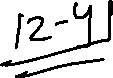
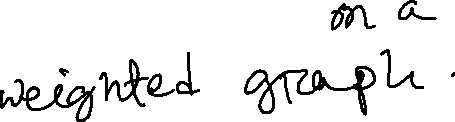
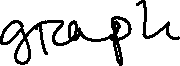
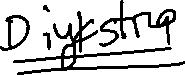
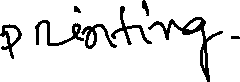
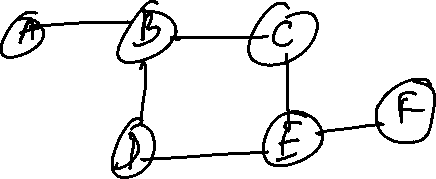
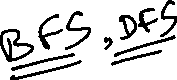
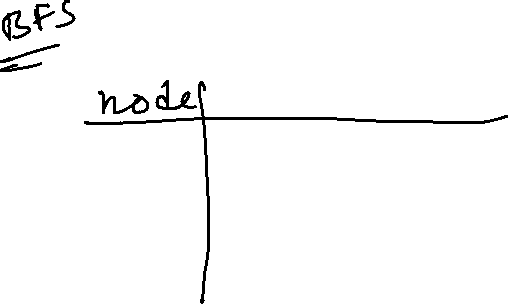
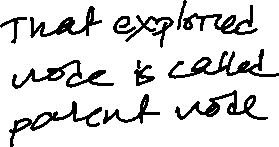
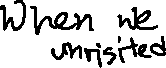
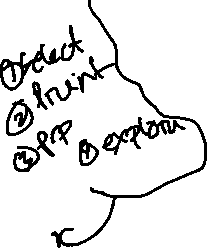
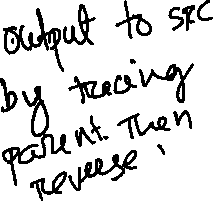
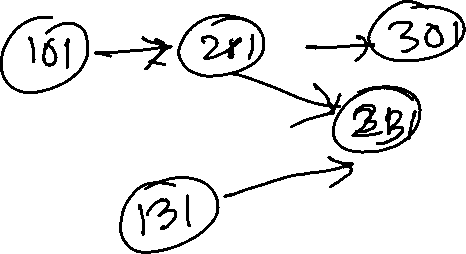
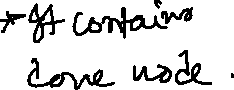
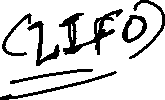
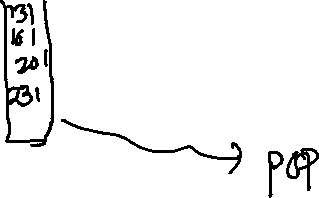
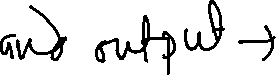
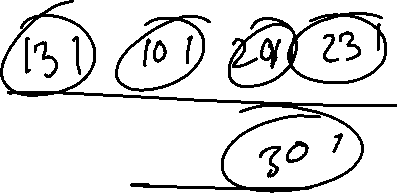
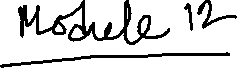
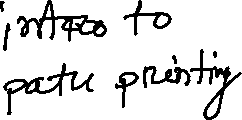
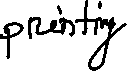
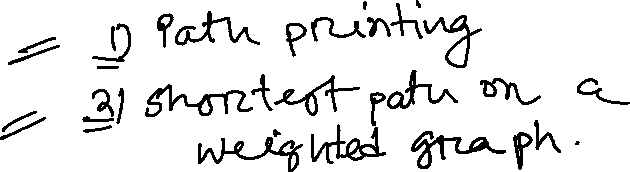
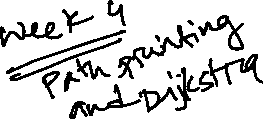
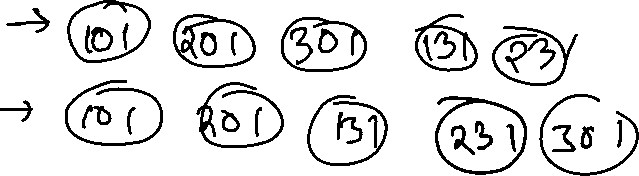
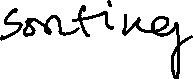
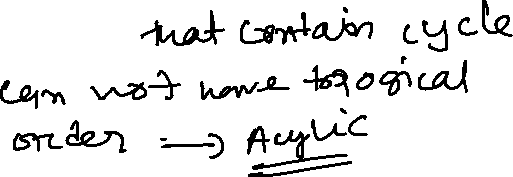
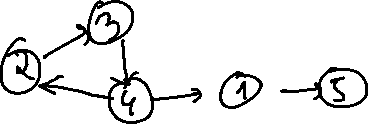
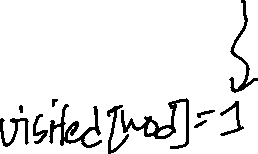
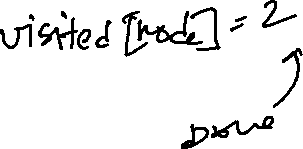
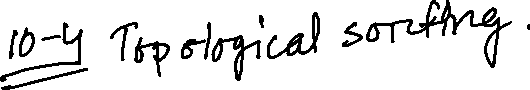
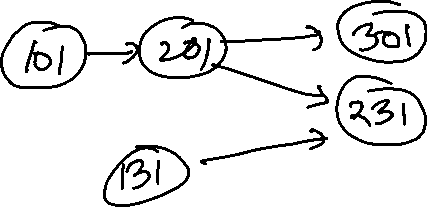
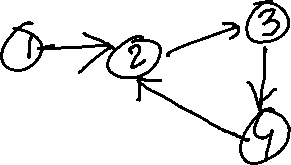
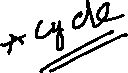
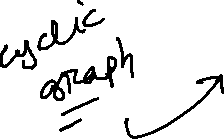
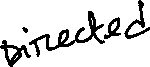
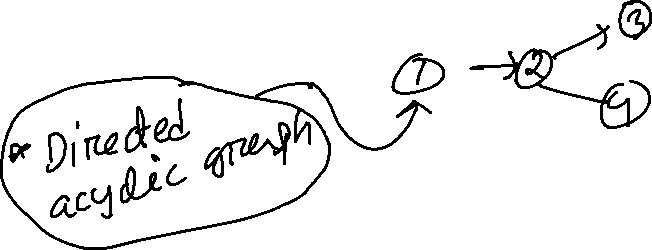
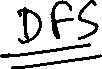
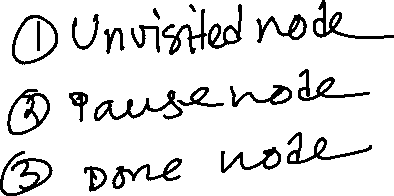
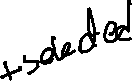
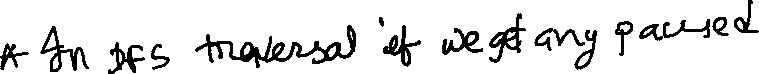
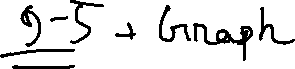
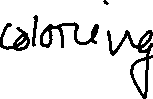
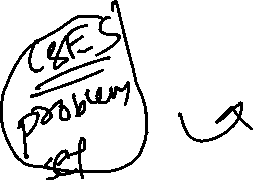
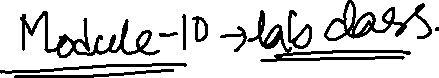
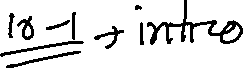
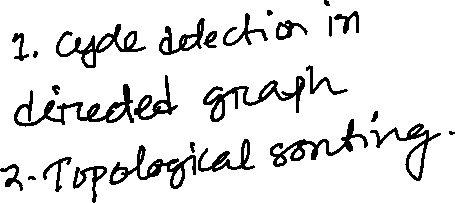
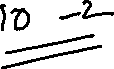
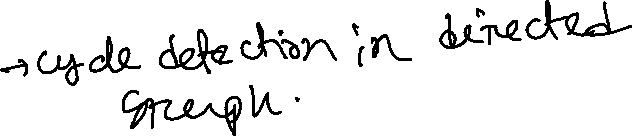
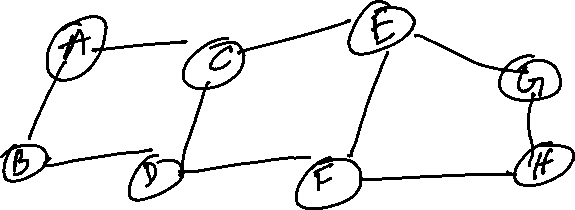
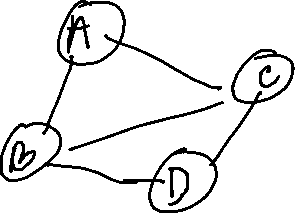
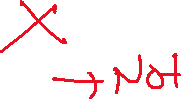
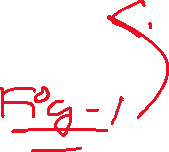
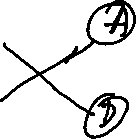
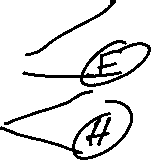
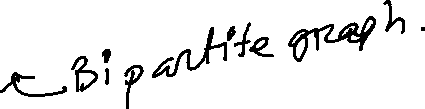
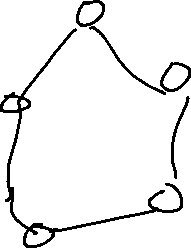
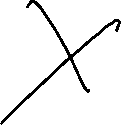
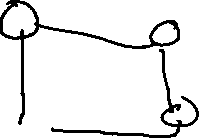
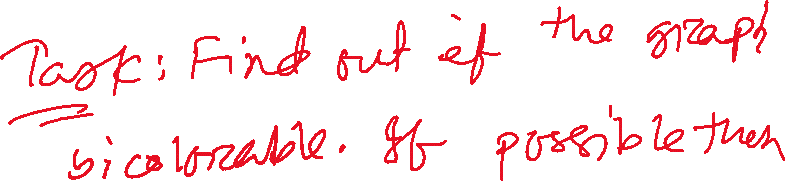
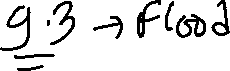
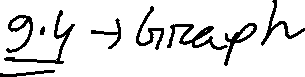
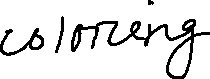
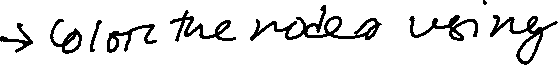
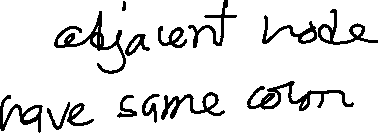
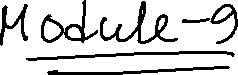
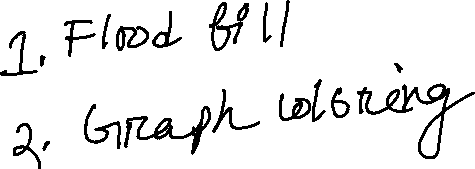
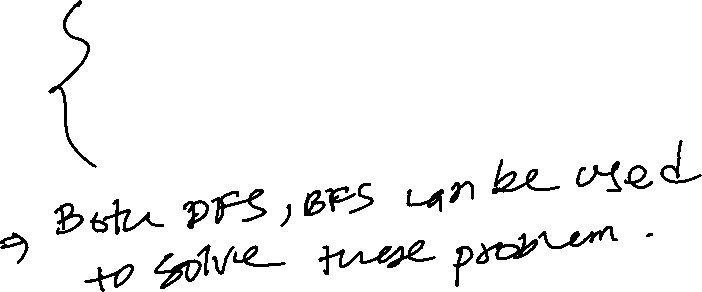
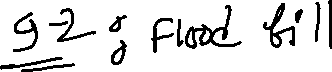
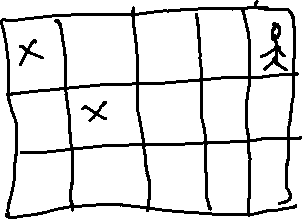
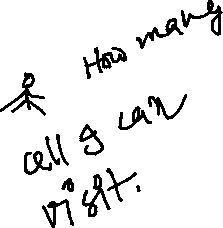
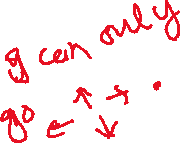
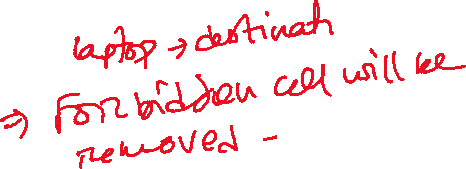
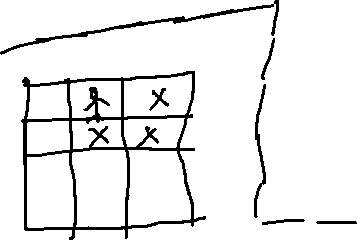
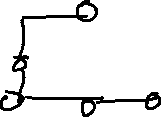
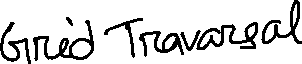
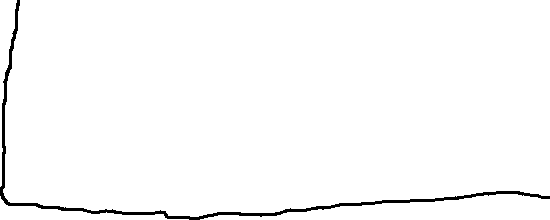
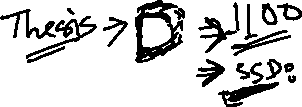
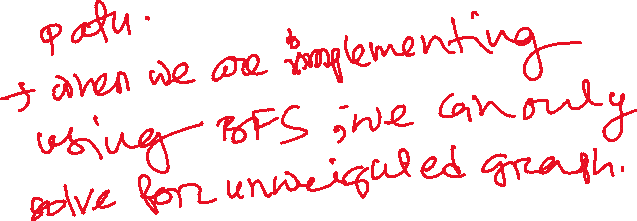
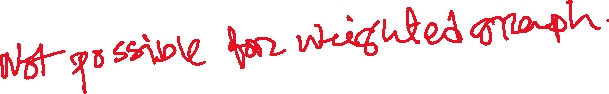
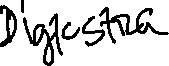
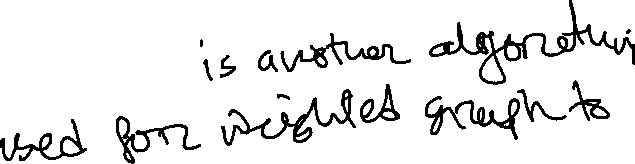
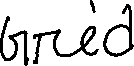
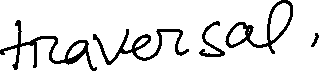
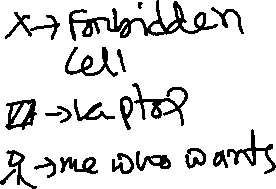
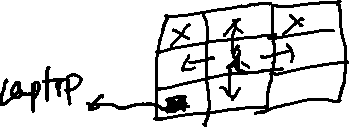
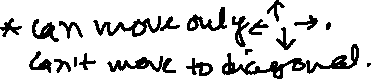
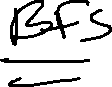
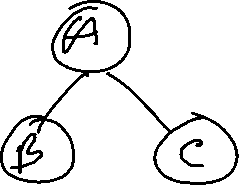
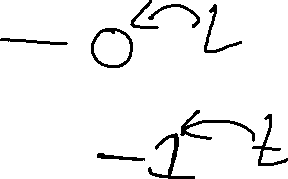
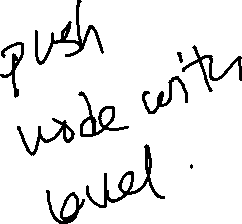
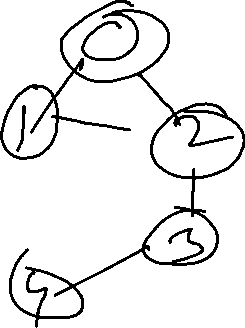
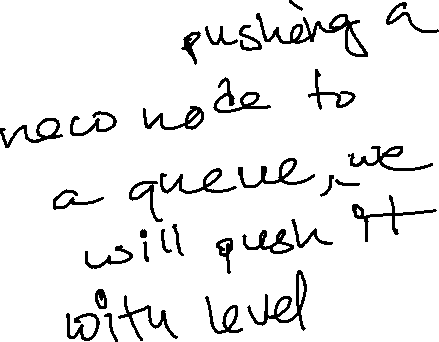
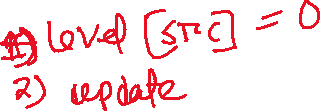
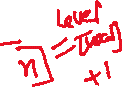
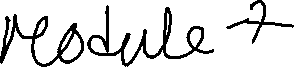
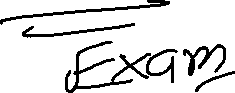
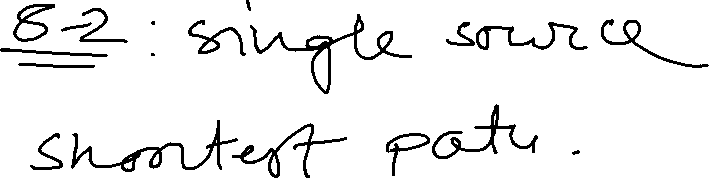
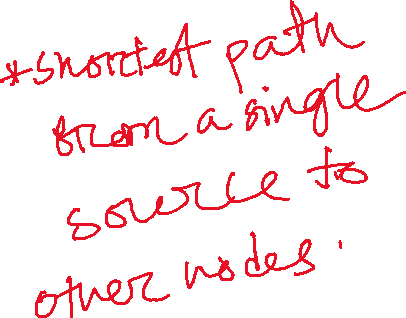
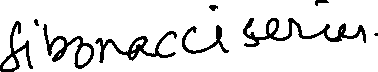
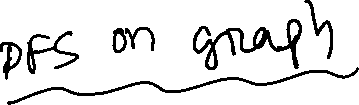
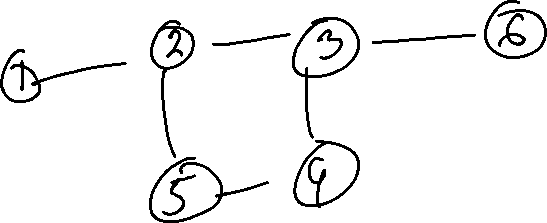
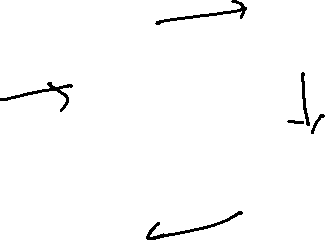
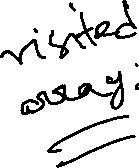
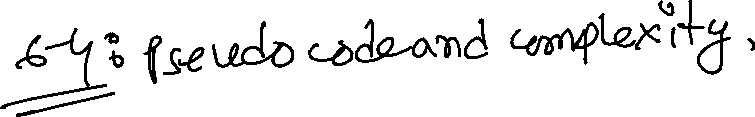
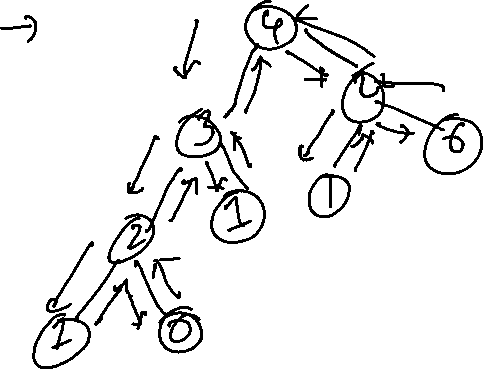
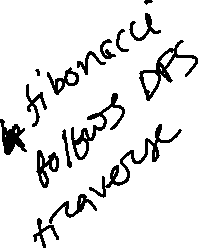
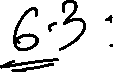
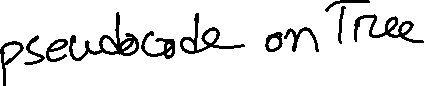
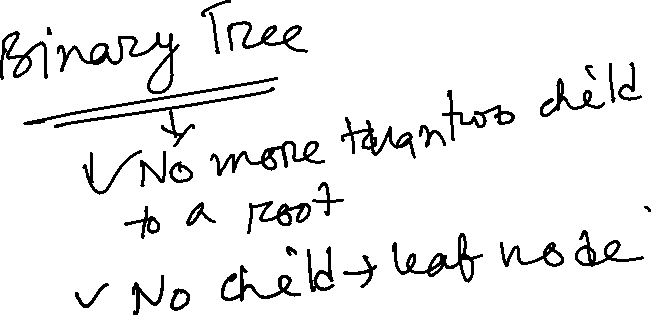
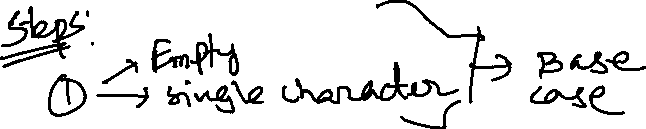
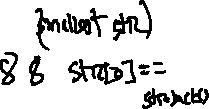
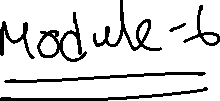
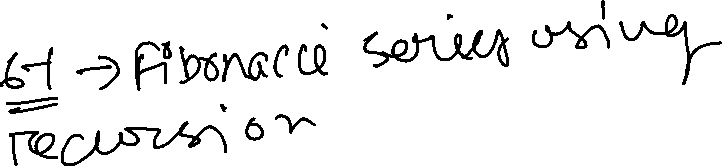
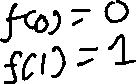
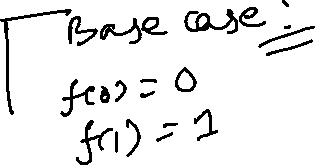
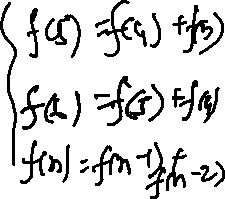
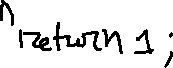
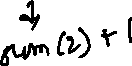
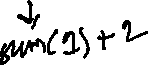
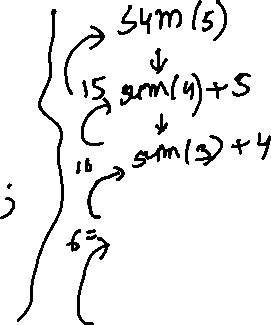
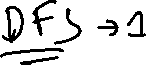
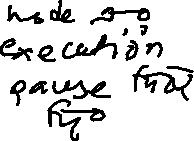
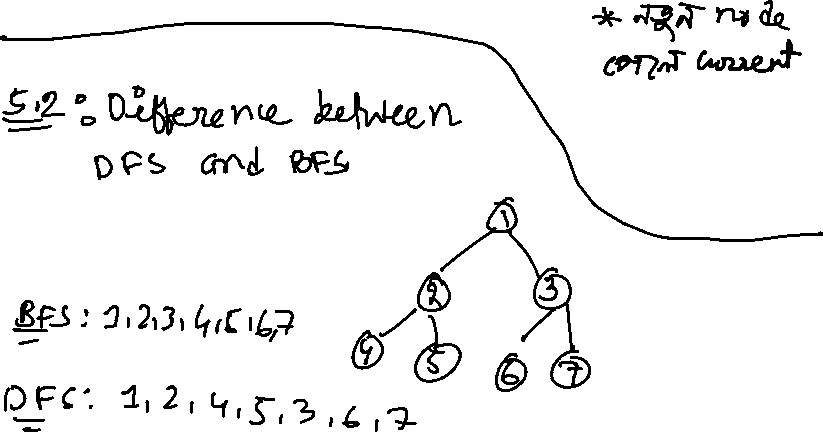
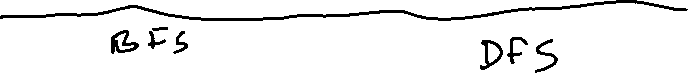
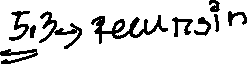
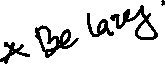
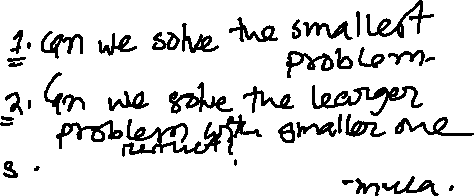
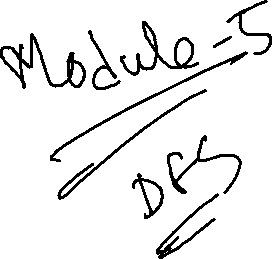
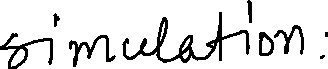
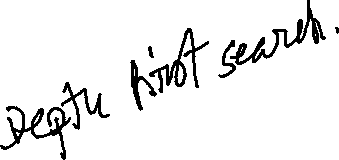
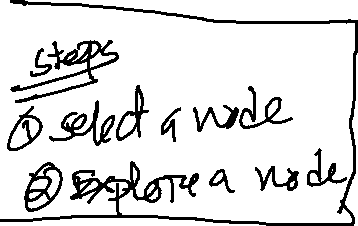
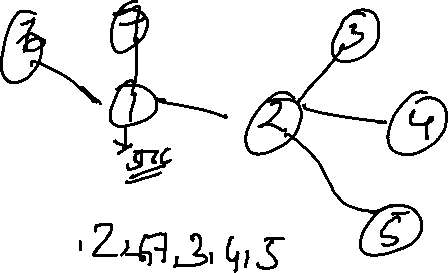
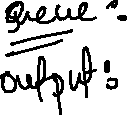
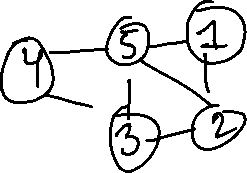
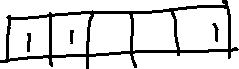
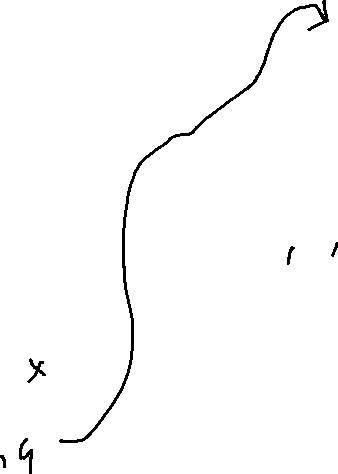
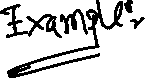
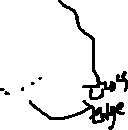
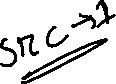
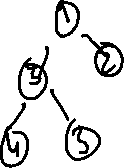
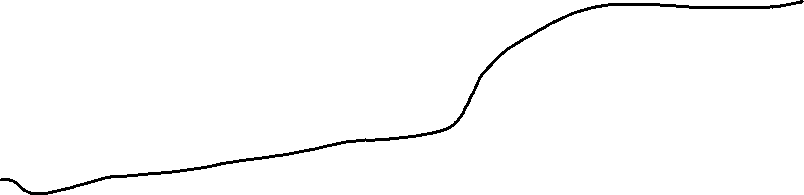
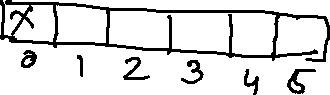
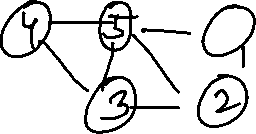
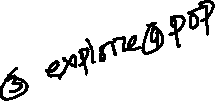
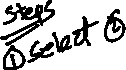
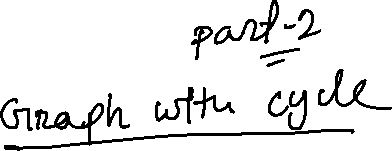
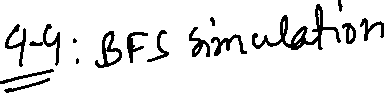
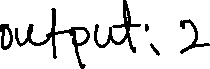
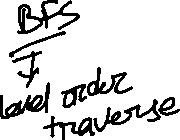
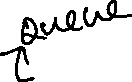
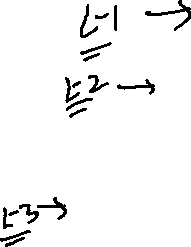
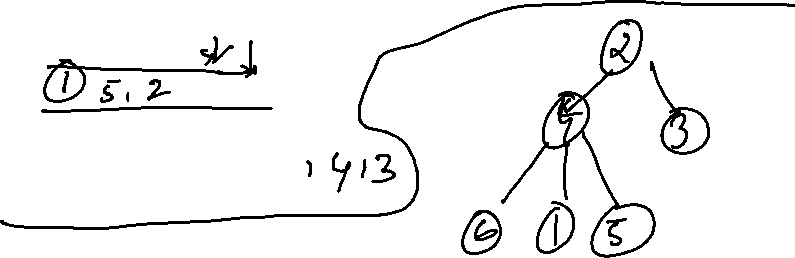
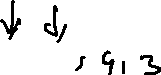
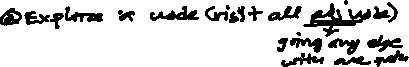
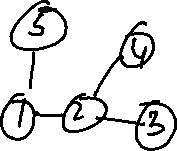
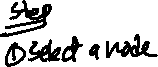
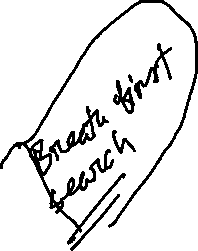
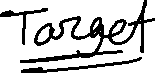
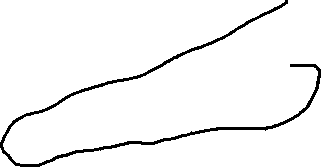
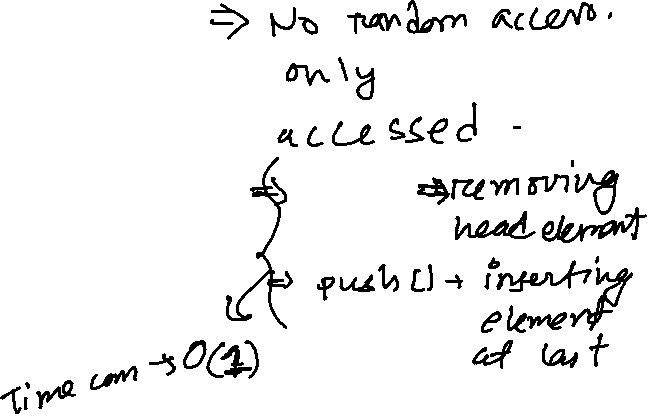
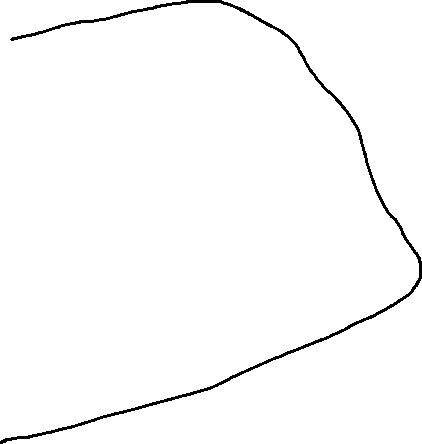
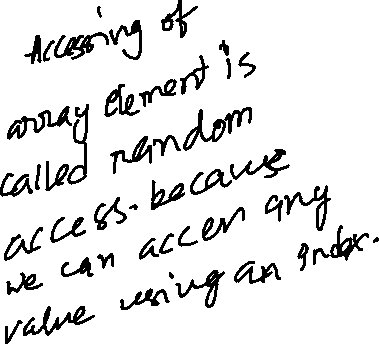
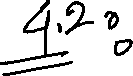
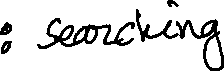
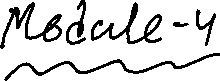
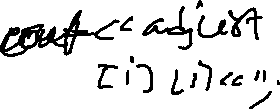
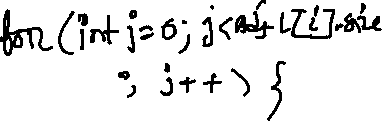
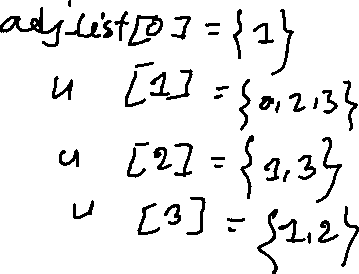
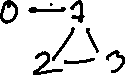
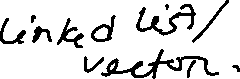
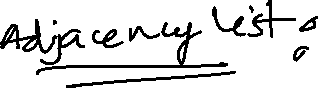
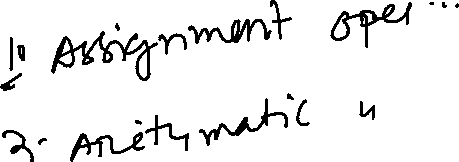
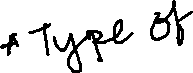
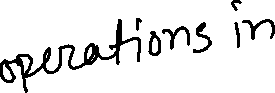
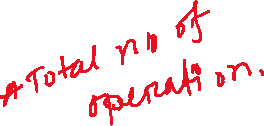
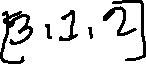
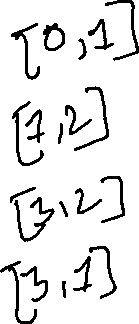
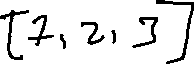
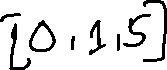
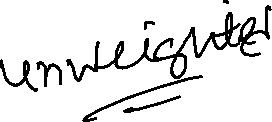
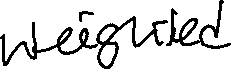
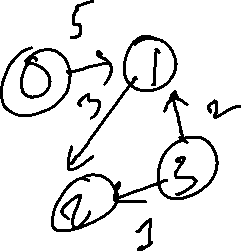
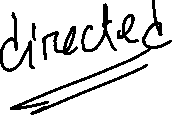
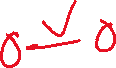
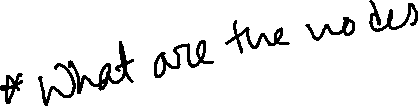
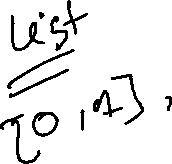
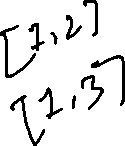
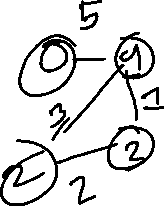
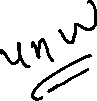
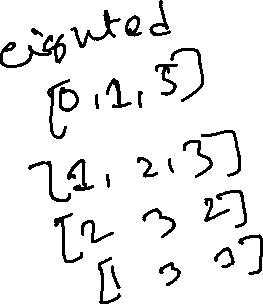
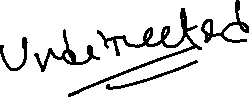
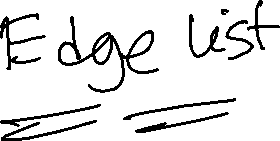
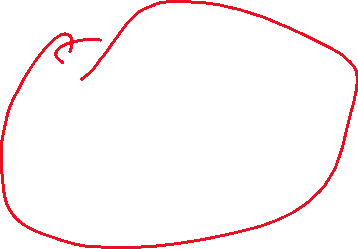
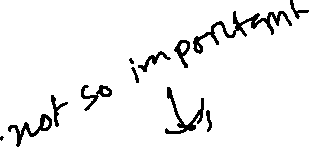
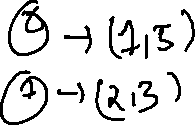
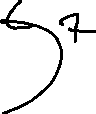
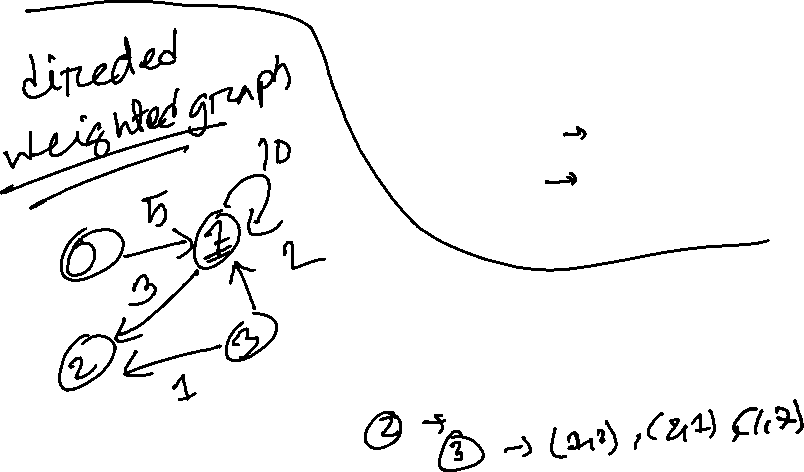
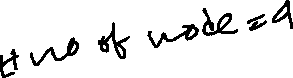
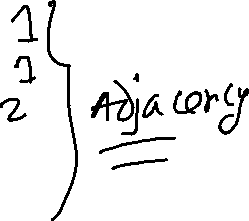
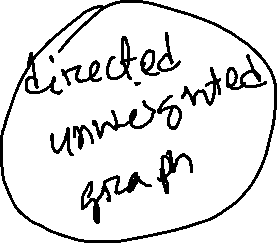
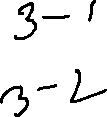
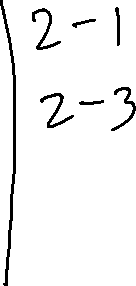
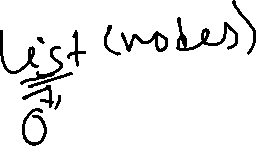
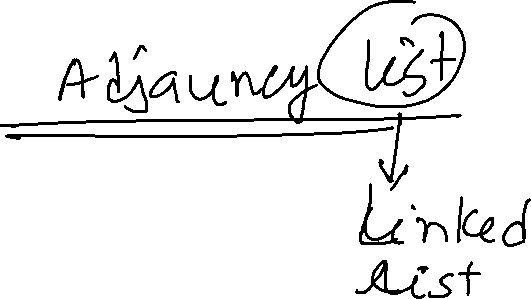
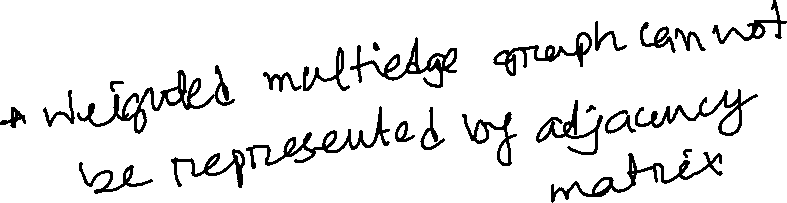
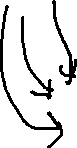
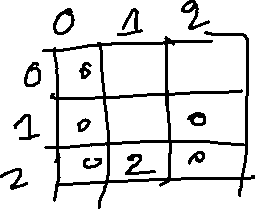
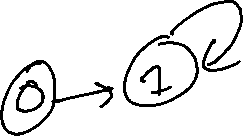
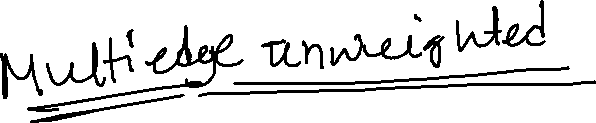
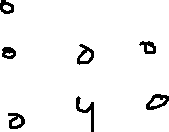
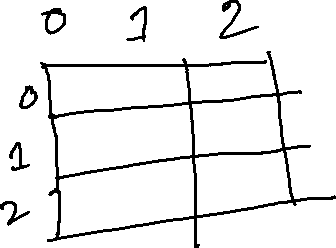
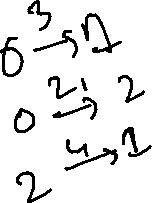
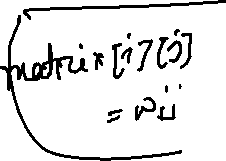
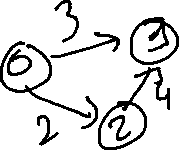
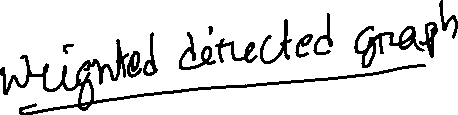
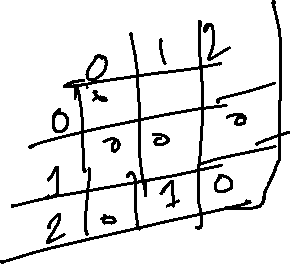
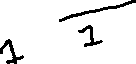
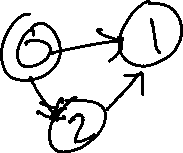
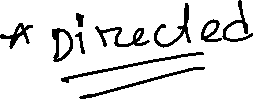
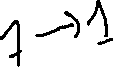
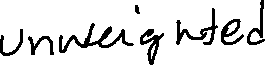
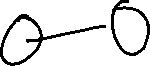
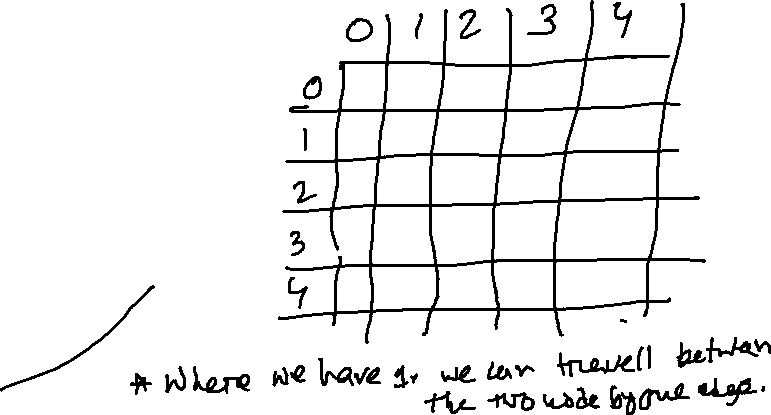
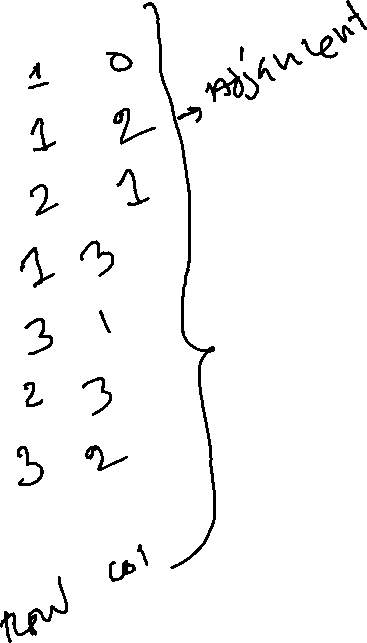
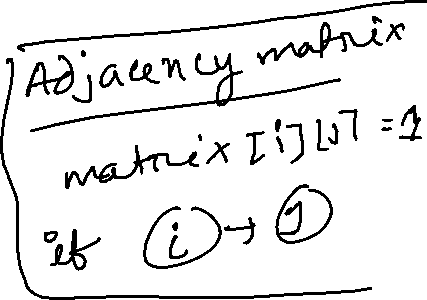
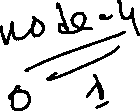
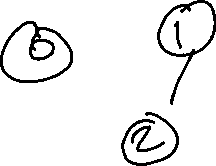
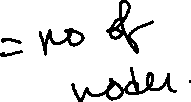
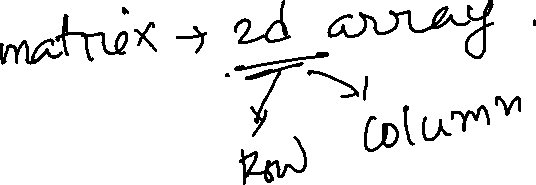
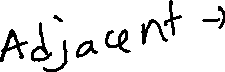
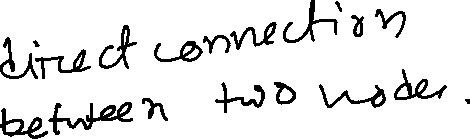
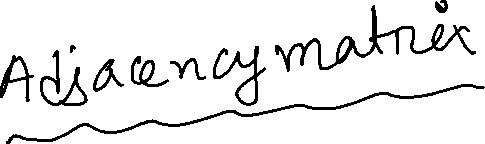
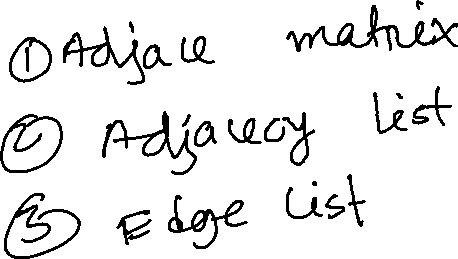
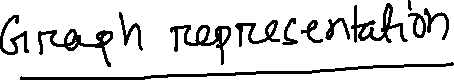
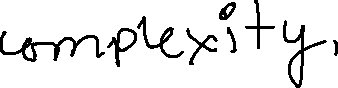
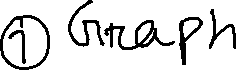
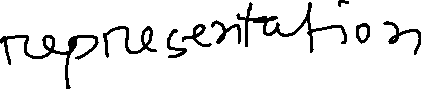
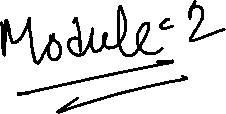
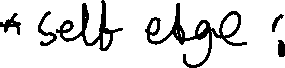
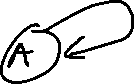
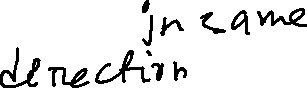
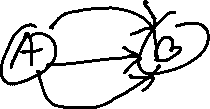
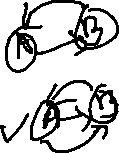
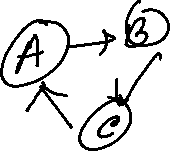
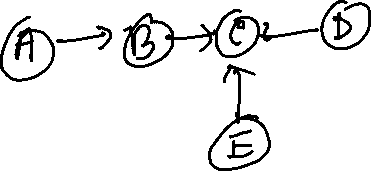
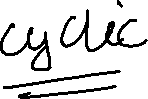
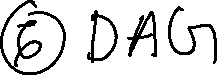
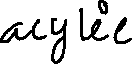
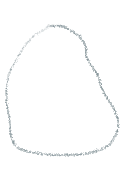
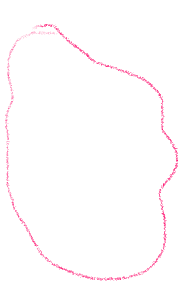
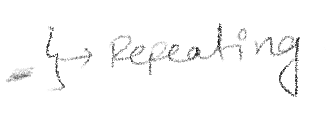


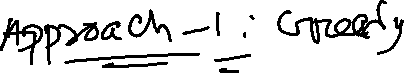
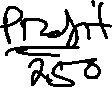
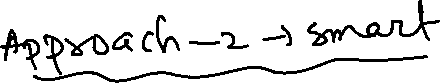
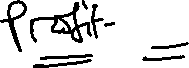
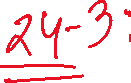
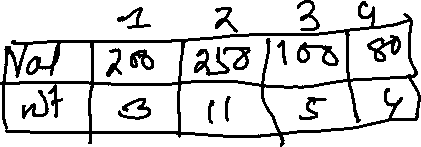
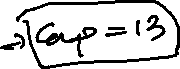
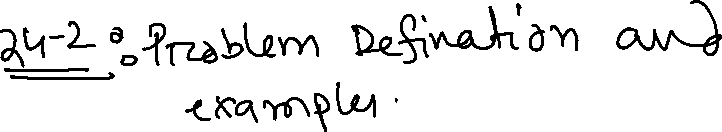
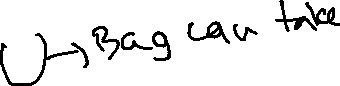
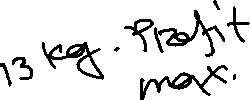
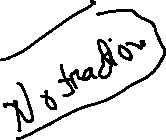
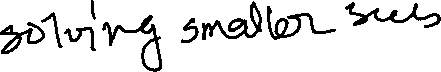
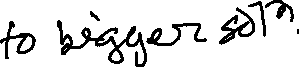
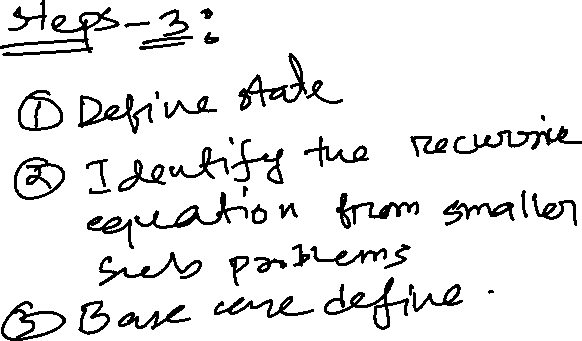
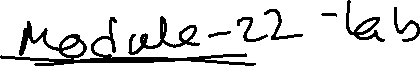
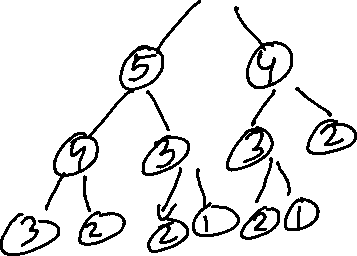
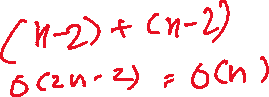
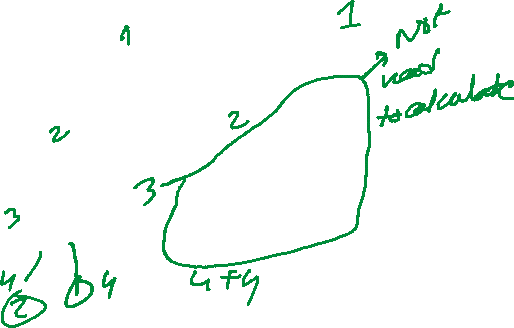
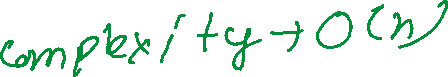
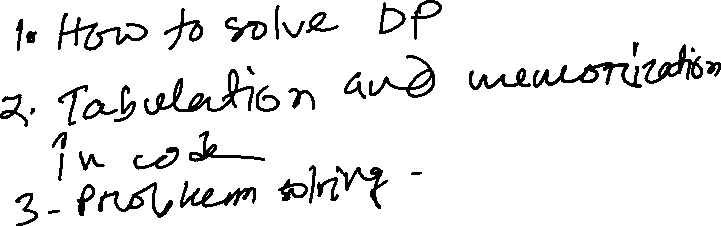
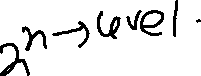
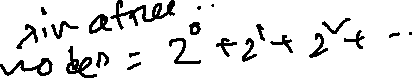
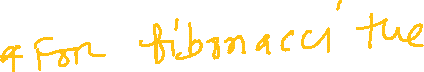
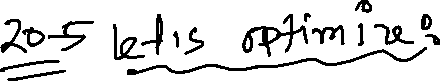
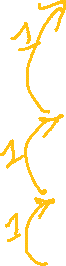
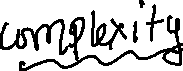
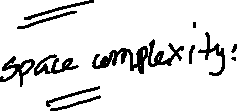
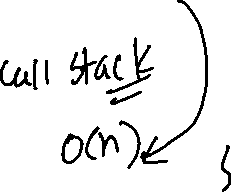
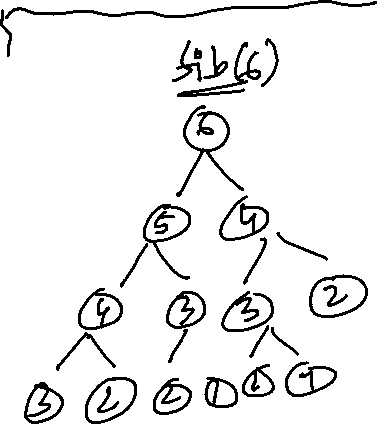
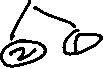
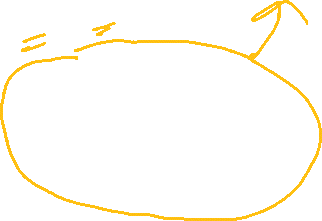
A rooted tree is a tree where one node is designated as the root node, and all other nodes are connected to it via directed edges. The root node has no incoming edges, but all other nodes have one incoming edge. Rooted trees are commonly used in computer science and mathematics to model hierarchical relationships, such as family trees or file system directories.

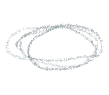
An unrooted tree, on the other hand, is a tree where no node is designated as the root node. Instead, all nodes are connected to each other via undirected edges. Unrooted trees are commonly used in biology to represent evolutionary relationships between species or organisms.

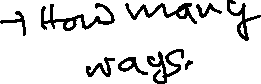
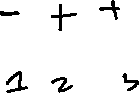
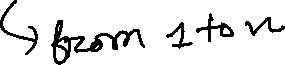
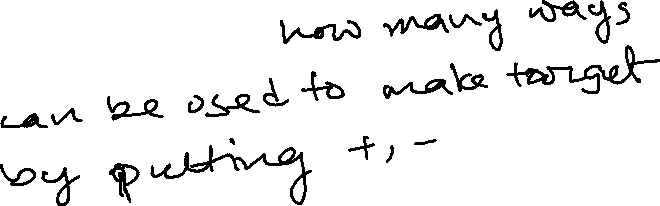
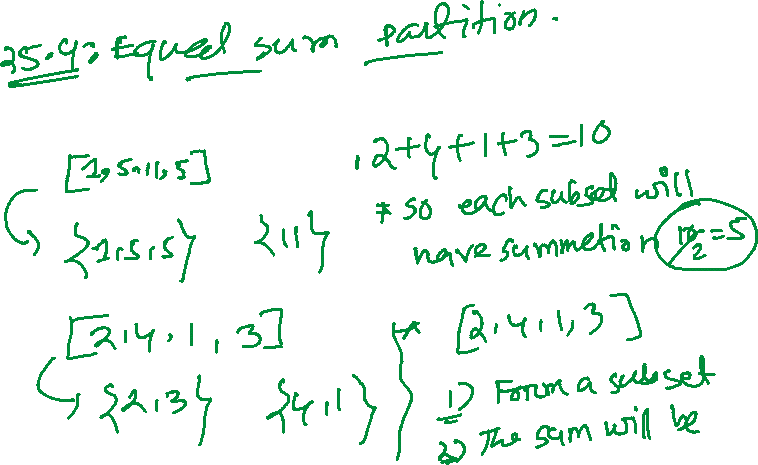
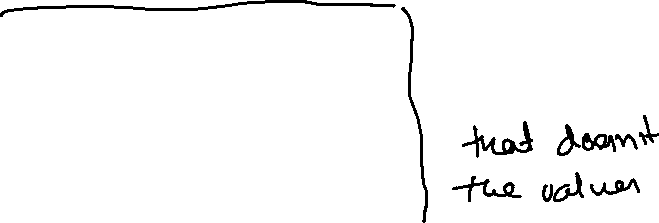
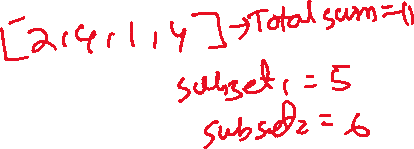
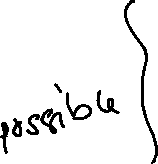
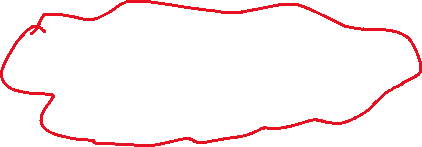
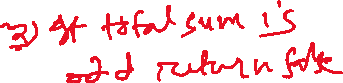
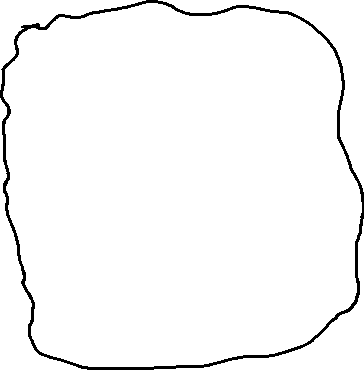
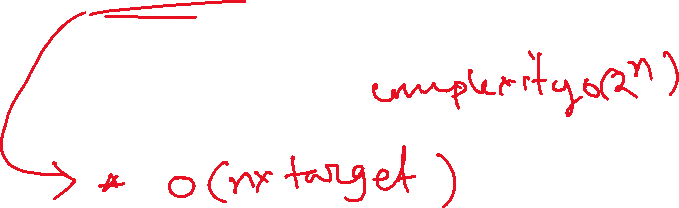
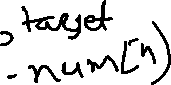
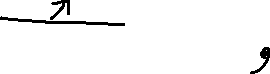
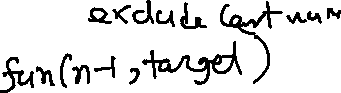
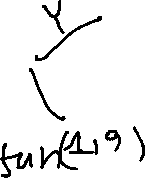
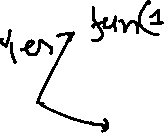
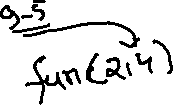
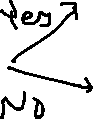
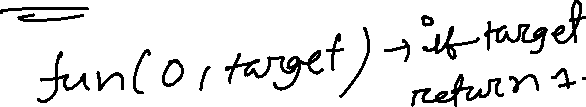
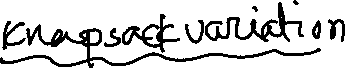
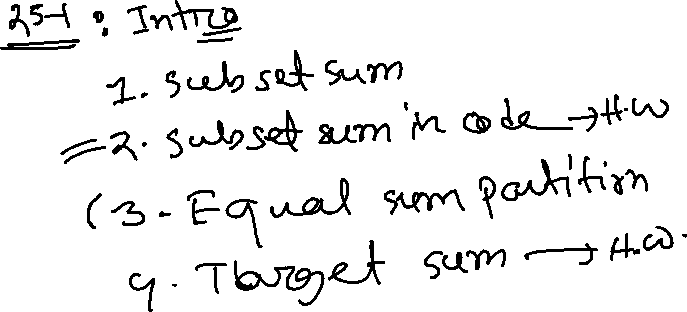
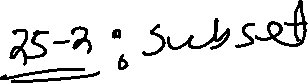
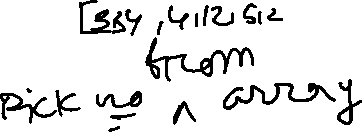
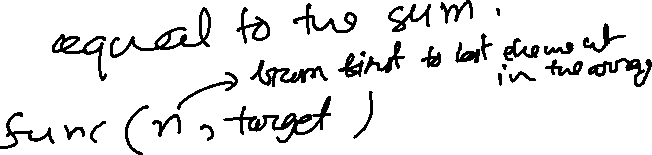
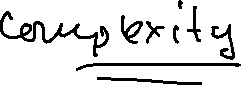
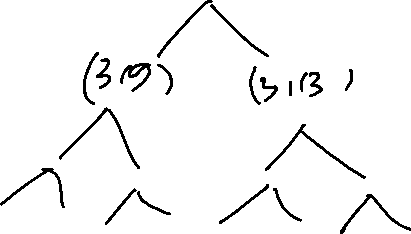
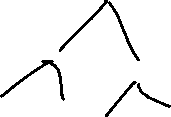
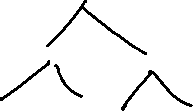
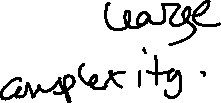
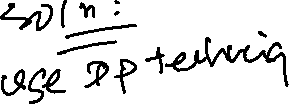
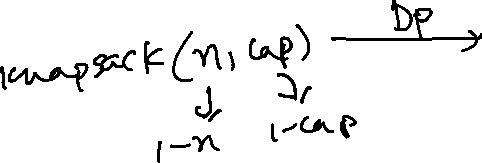
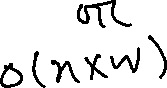
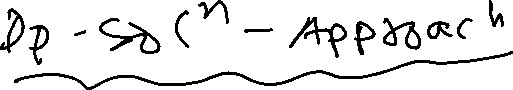
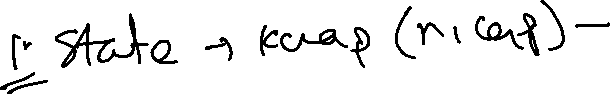
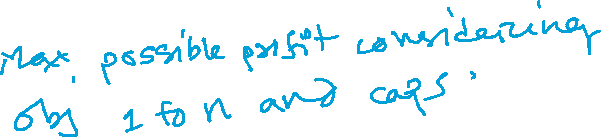
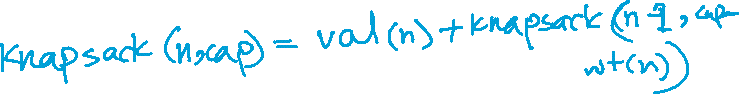
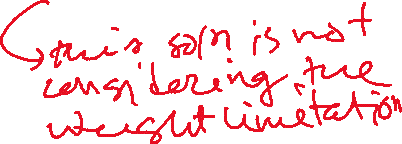
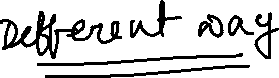
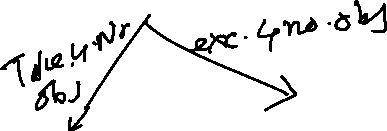
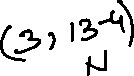
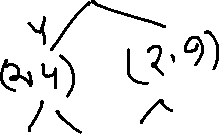
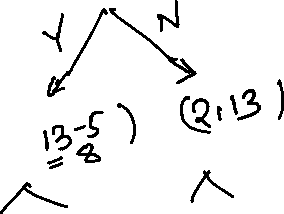
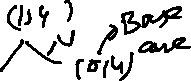
In a rooted tree, the direction of the edges indicates the flow of information or hierarchy, while in an unrooted tree, the relationships between nodes are symmetrical and without a defined direction. Rooted trees are often used when it is necessary to distinguish between ancestor and descendant nodes, while unrooted trees are used when it is only necessary to represent the relationships between nodes.



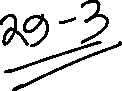
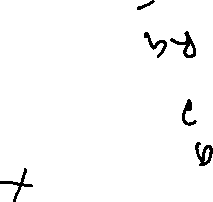
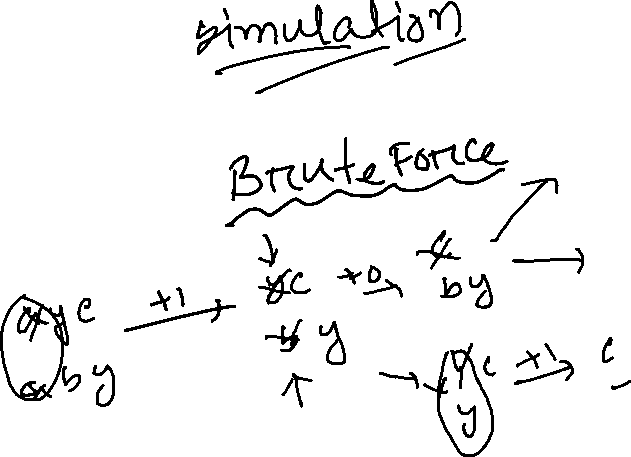
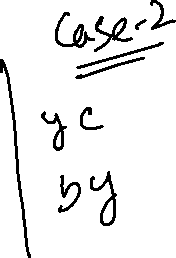
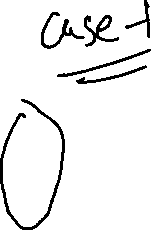
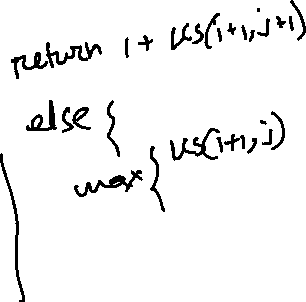
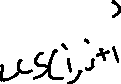
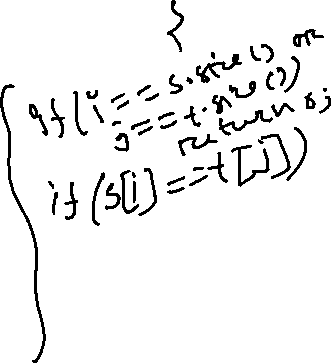
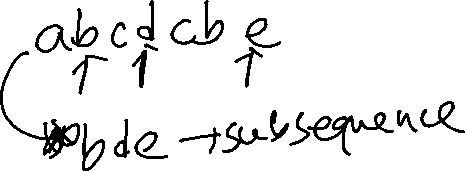
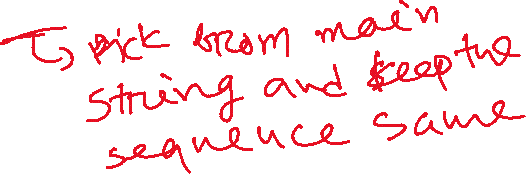
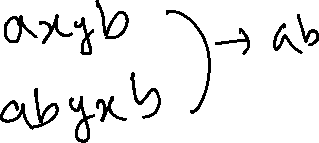
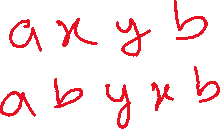
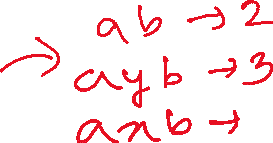
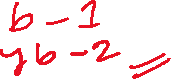
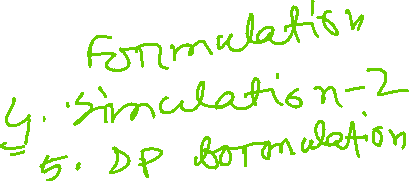
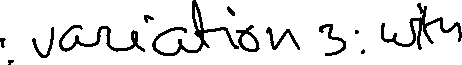
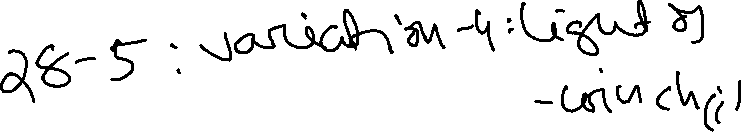
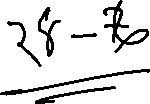
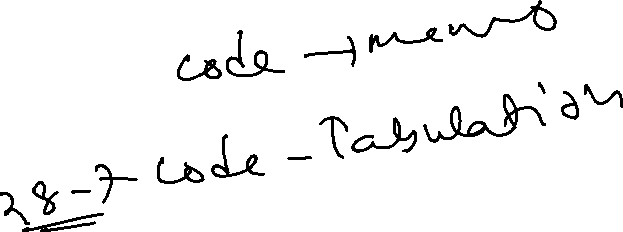
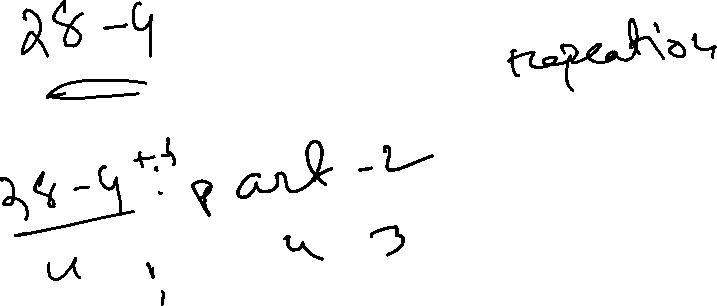
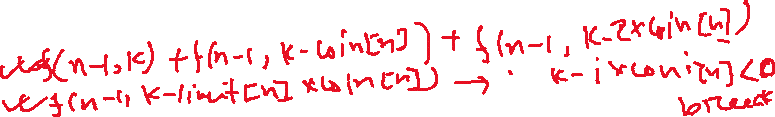
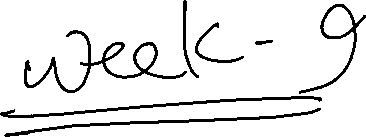
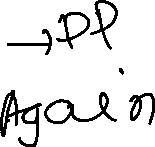
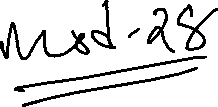
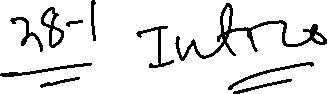
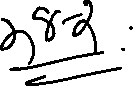
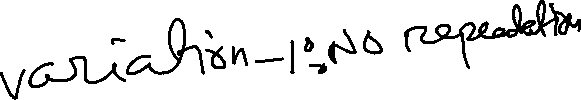
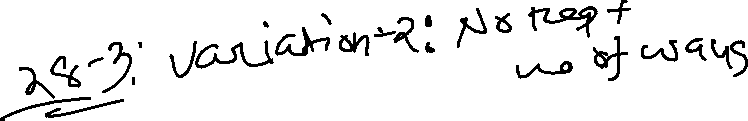
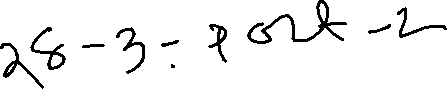
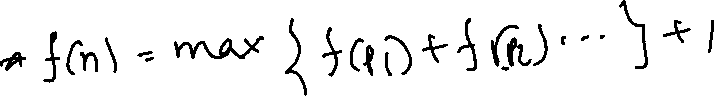
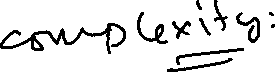
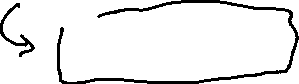
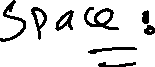
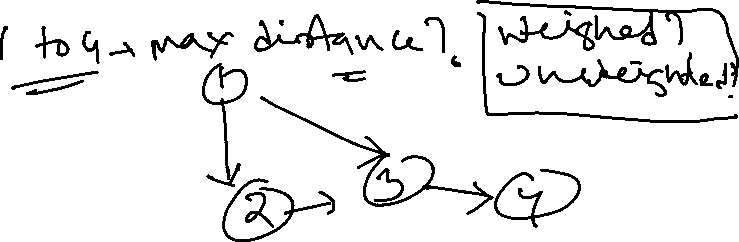
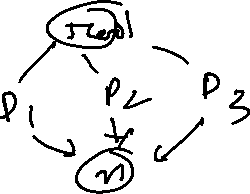
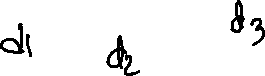
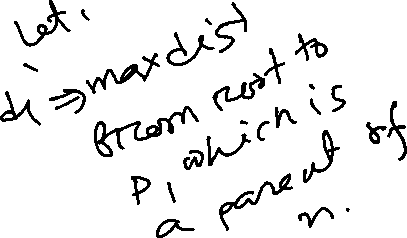
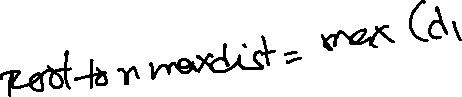
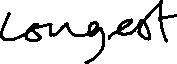
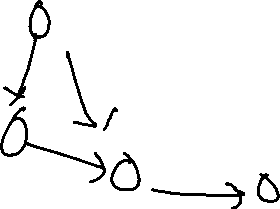
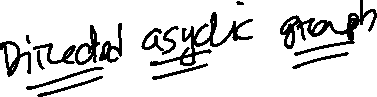
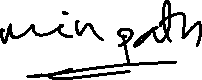
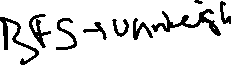
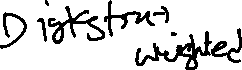
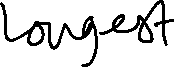
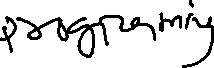
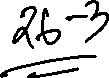
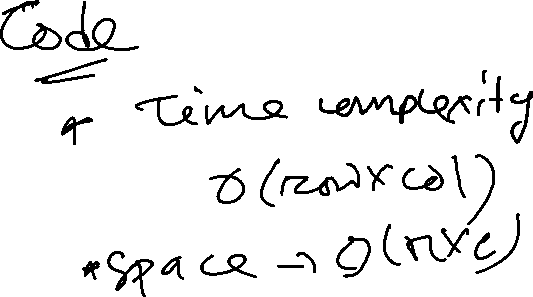
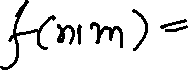
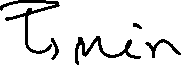
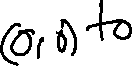
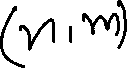
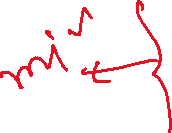
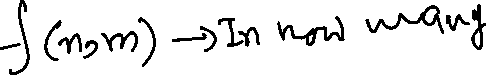
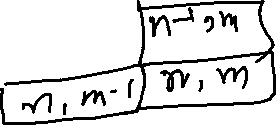
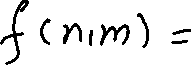
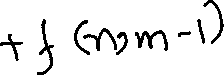
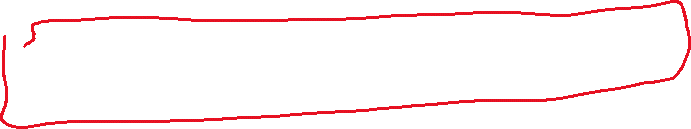
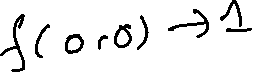
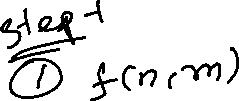
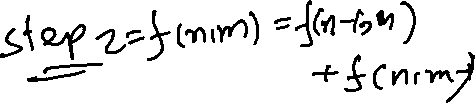
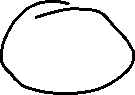
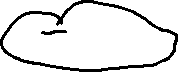
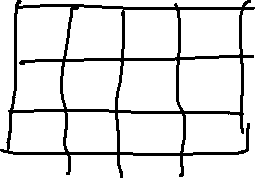
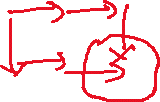
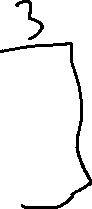
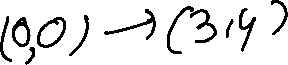
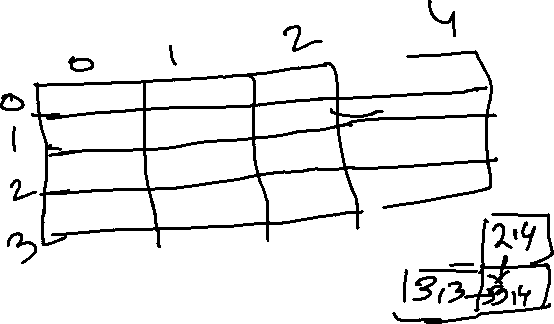
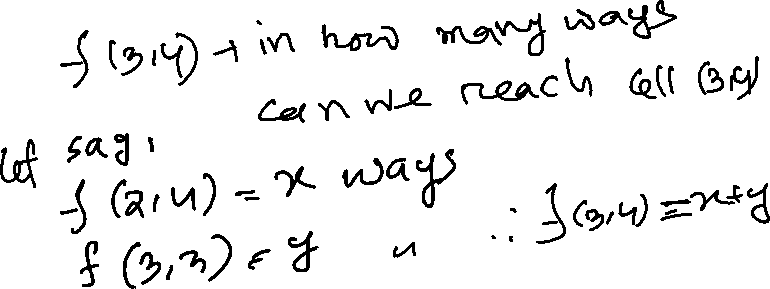
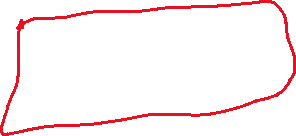
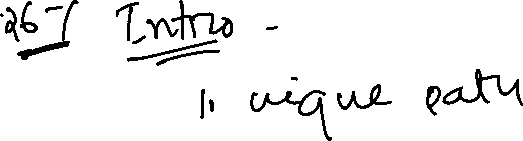
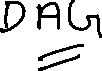
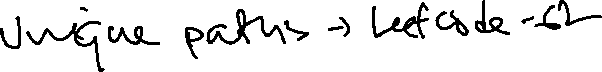
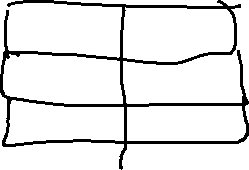
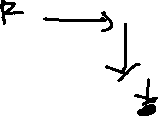
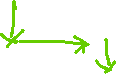
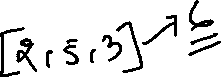
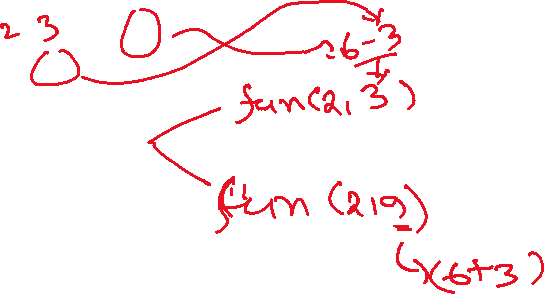
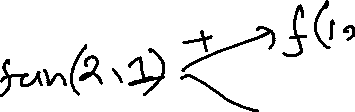
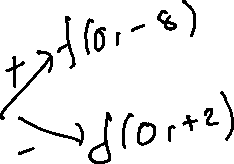
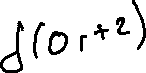
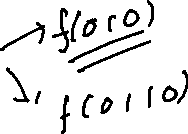
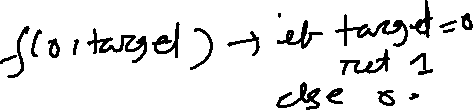
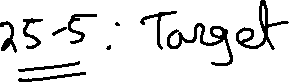








https://leetcode.com/problems/target-sum/



Diagram

Description automatically generated

