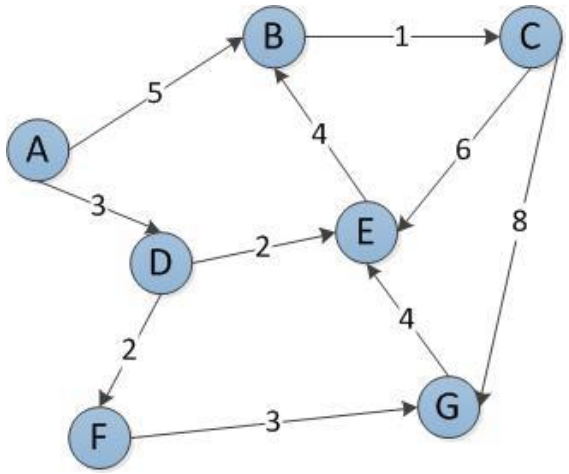
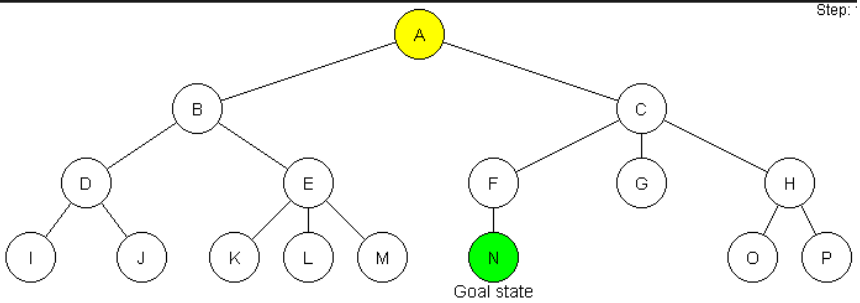
ASSIGNMENT – 2

1. Best-first search is a search algorithm which explores a graph by expanding the most promising node chosen according to a specified rule. You need to implement ***greedy*** version of this search algorithm and test them on following graph (**A** is the ***start node*** and **G** is the ***Goal node***) and print the Search sequence.



2. Iterative deepening depth-first search (**IDDFS**) is a state space search strategy in which a depth-limited search is run repeatedly, increasing the depth limit with each iteration until it reaches d, the depth of the shallowest goal state. Implement this search algorithm and test them on following graph and print the Search sequence (***A*** is the ***start*** state and ***N*** is the ***goal*** state).



3. Implement Uninformed Depth Limited Search considering 8-Puzzle Problem. Report Order of nodes visited and Solution Path for the search technique.
4. Implement Uninformed Bi-directional Iterative Broadening Search considering Tree. Report Order of nodes visited and Solution Path for the search technique.