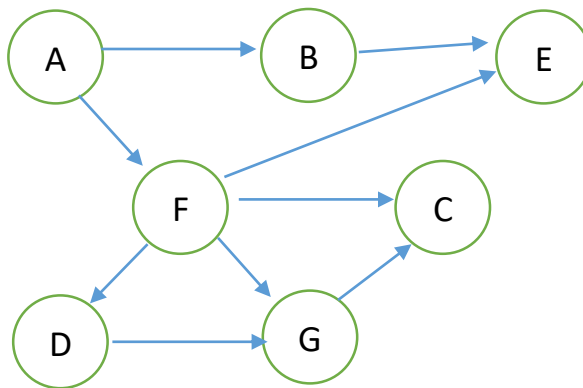


Design and Analysis of Algorithm

Tutorial

1. Define the following terms in Graph terminology.
 - a. Weighted Digraph
 - b. Multi graph
 - c. Adjacent Vertex
 - d. In degree and Out degree
 - e. Circuit
 - f. Hamiltonian Cycle
2. Refer the following graph. Consider the source vertex as A.



- a. Draw the Adjacency List representation format.
- b. Draw the Adjacency Matrix representation format.
- c. Illustrate the Breadth First Search(BFS) for the graph. Draw the graph & the queue for each step with time stamps, finally draw the breadth first tree/s.
- d. Illustrate the Depth First Search(DFS) for the graph. Draw the graph & the stack for each step with time stamps, finally draw the depth first tree/s.