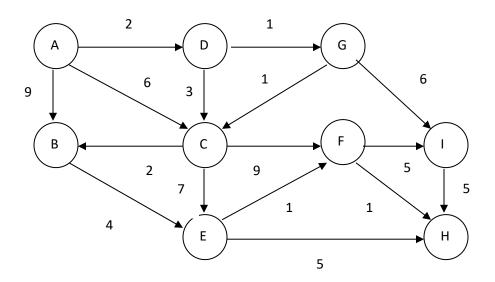
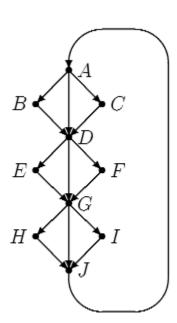
CSCI378 – Data Structures and Algorithms Assignment 5

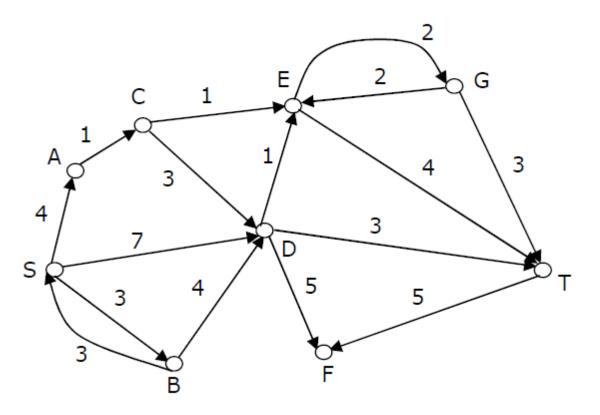
1. Given the Graph below use Dijkstra's algorithm to compute the shortest paths from vertex "A" to all other vertices.



- 2. Consider the following directed graph.
 - a. List the order of visits using DFS.
 - b. List the order of visits using BFS.



3. Consider the directed graph shown in the figure below. Draw the adjacency list and the adjacency matrix.



Assignment Guidelines:

- This assignment is posted on Monday May 29th and is due on Sunday June 4th by midnight.
- This assignment covers Chapter 5 (Graphs).
- You have to solve all 3 problems, but only two of them will be marked. You will know the problems that will be marked after you submit the assignment.
- The assignment should be done individually not in groups. Cheating will result in a zero grade.