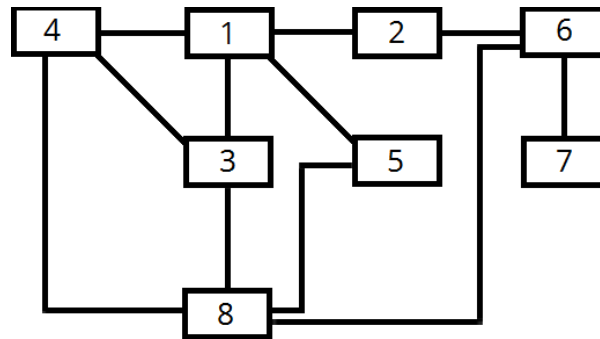# Lab 7 - Graph and Heap

Problem 1. Write a program to create the graph of n vertices using an adjacency matrix. The program should have the following operations:

    a) Traverse the graph using breadth-first search method.
    b) Traverse the graph using depth-first search method.

The below gragh can be used to test your program.

Problem 2. Write a program to build a max heap H from the given set of numbers: 45, 36, 54, 27, 63, 72, 61, and 18.

The program can do the following tasks:

    a) Insert a new element into H.
    b) Delete an element from H.
    c) Sort the numbers in descending order.