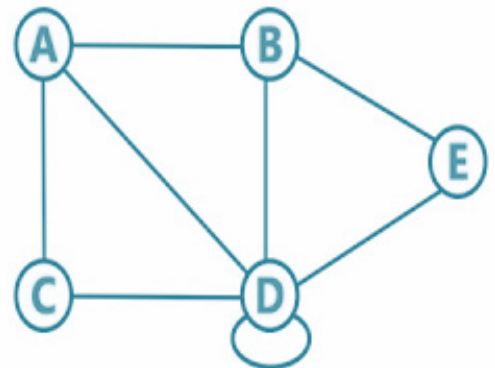
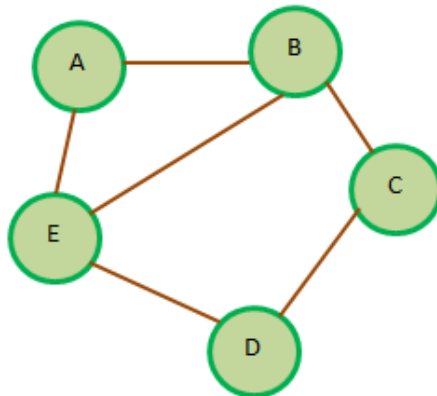
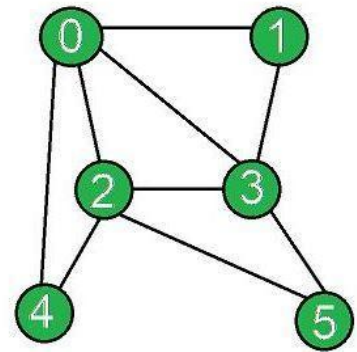
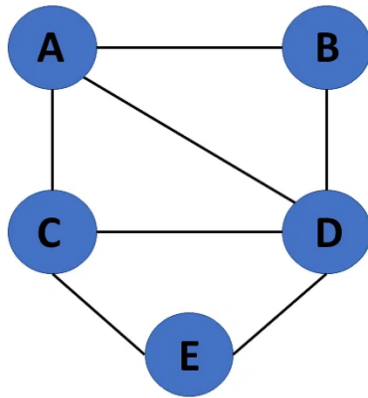




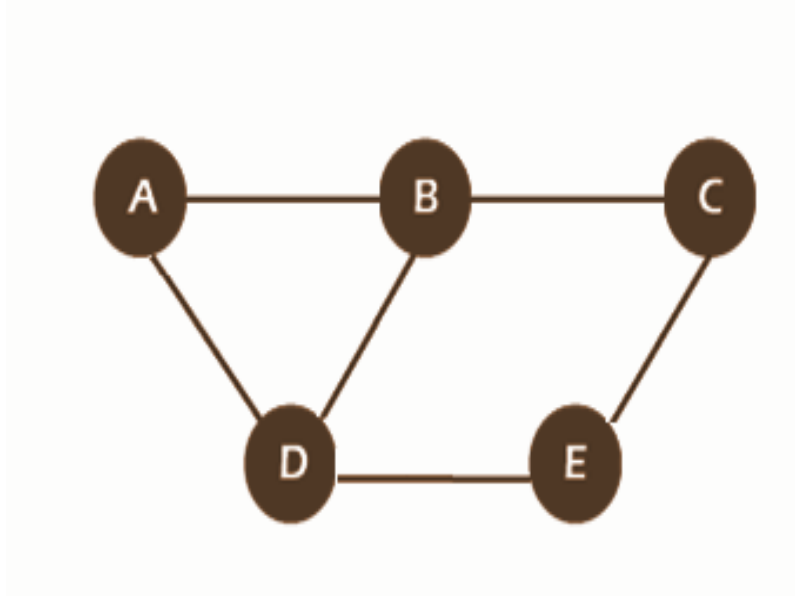
UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING
IS 2110 Data Structures and Algorithms II - Practical I

- Submit **one pdf file** (for question 1 and part a of question 3 and 4) and **two C program files** (for question 3 and 4).
- *Rename all files with your index.*

1. Write both **adjacency matrix** and **adjacency list** for the following graphs.



For Question 2 and 3 use the following graph and sample codes



2.
 - a. Write the adjacency matrix for the graph.
 - b. Write a C program to implement the adjacency matrix.
(Add comments for all main steps)
 - c. Display the adjacency matrix of the above graph using the program implemented in question (b).

3.
 - a. Write the adjacency list for the graph.
 - b. Write a C program to implement the adjacency list.
(Add comments for all main steps)
 - c. Display the adjacency list of the above graph using the program implemented in question (b).