ACADEMY OF TECHNOLOGY
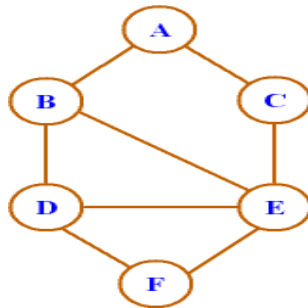## Lab Assignment (Day 5)
Paper name: Design and Analysis of Algorithms Lab
Code: PCC-CS494   **Semester: 4th**
Discipline: CSE   **Time: 2 Hours**
Date: May 13, 2021

1. Write a program in C or C++ to sort a given array of elements using the Quick Sort algorithm.

2. Write a program in C or C++ to implement the Breadth-First-Search algorithm using adjacency matrix. You may use the following graph as an Input graph. You must use the file for graph input.

3. Write a program in C or C++ to implement a) iterative Depth-First-Search and b) recursive Depth-First-Search algorithm using adjacency matrix. You may use the same graph as the input graph.