**Prelab-4**

**Prelab Questions:**

1. What are the different types of graphs? Give example for each?
2. How to detect cycle in the graph using degrees of nodes of graph? Analyze the time complexity?
3. What are the Walks, Trails, Paths, Cycles and Circuits in Graph? Explain with an example.
4. What are the complete graphs, wheels, hyper cube, bipartite graph?
5. Find the Time complexity of Dijkstra’s single source shortest path algorithm

**Pre-lab programs:**

1. Implement the Dijkstra’s single source shortest paths algorithm.
2. Implement Bellman ford single source shortest paths algorithm.