

## Assignment - XII

1. Write a program to implement the Bellman-Ford algorithm. You need to print the shortest paths from a source vertex to each of the vertices of the graph.
2. Write a program to solve the single-source shortest paths problem in directed acyclic graphs.
3. Write a program to implement Dijkstra's algorithm.
4. Write a program to solve the all-pairs shortest path problem in  $\Theta(n^4)$  time, where  $n$  is the number of vertices in the graph.
5. Write a program to implement the Floyd-Warshall algorithm.