Practical Assignment

Data Structures and Algorithms Lab (CS 253)

November 02, 2022

Lab Assignment X

Write a C++ program to:

- Implement Dijkstra's algorithm to find the shortest path in a graph.
- Implement the Bellman-Ford algorithm to find the shortest path in a graph that have some edges with negative weights. (Show the advantage of this algorithm over Dijkstra's with an example).

Note:

- Your code should take the input source and destination as node from the user.
- Implement the required data structure on your own.
- Show the graph using Graphviz tool.