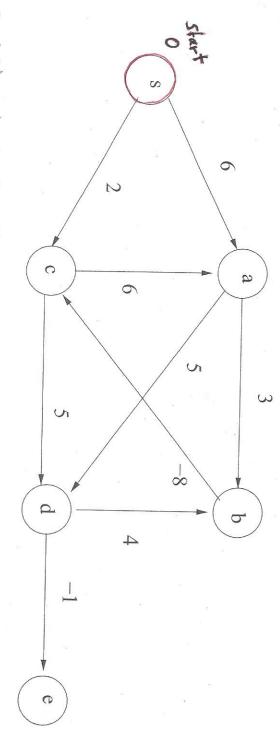
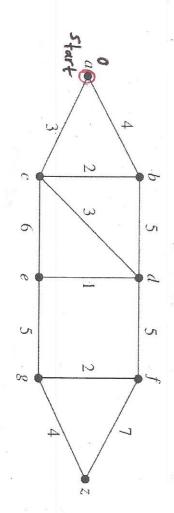
-Week 15 Lab: Graph Theory

Examples Dijkstra's Algorithm

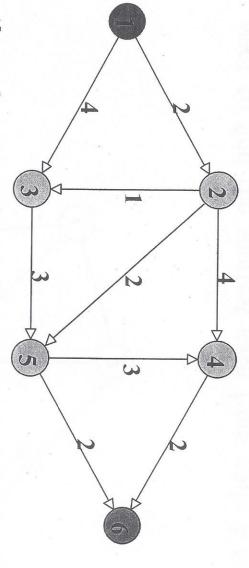
1 Find the Shortest path ; using table :



2 - Find the shortest path, using table:



The Shortest Path Problem



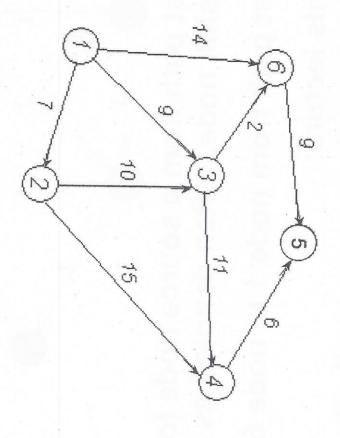
denoted as s) to a sink node, (often denoted as t)? What is the shortest path from a source node (often

What is the shortest path from node 1 to node 6?

Assumptions for this lecture:

- There is a path from the source to all other nodes.
- 2. All arc lengths are non-negative

Dijkstra's Algorithm: Example



We want to find the shortest path from node 1 to all other nodes using Dijkstra's algorithm.