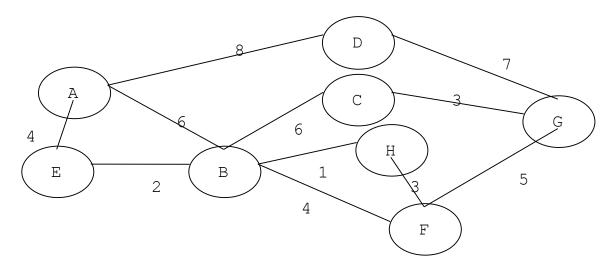
1. You are to implement Dijkstra's algorithm to find the shortest path between 2 points in a graph. (You do not need to use classes)

The graph you are to use is the one used in the diagrams in the lecture overheads (shown below).



- 2. Once you have a working shortest path between 2 nodes, update the algorithm so that it will print out the shortest route from any node to EVERY OTHER NODE on the graph.
- 3. This is not related to Dijkstra's algorithm, in a word document, and in your own words explain each of the five the different ways of type casting in C++ (Implicit conversion, regular C style cast, dynamic\_cast, static\_cast, and reinterpret\_cast).