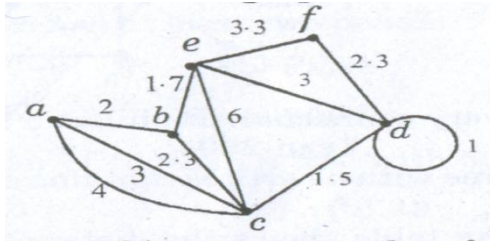
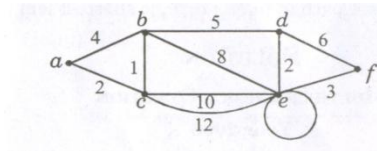


Assignment-IV
MODULE-4
(TREE AND SHORTEST PATH)

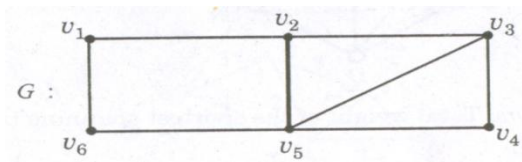
1. Apply the Dijkstra's method to find the Shortest distance and Shortest path between the two vertices a and f in the graph



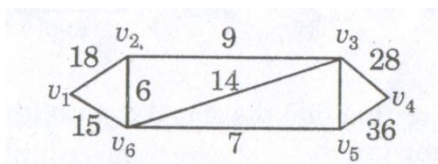
2. Apply the Dijkstra's method to find the Shortest path between the two vertices a and f in the graph



3. A Graph is given below
 - (a) Find the distance between v_1 and v_4 .
 - (b) Find the $\text{diam}(G)$.
 - (c) Find one circuit Which includes v_1 .

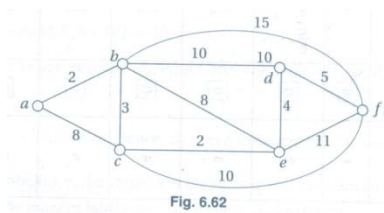


4. Apply the Dijkstra's method to find the Shortest distance and Shortest path between the two vertices v_1 and v_4 in the graph

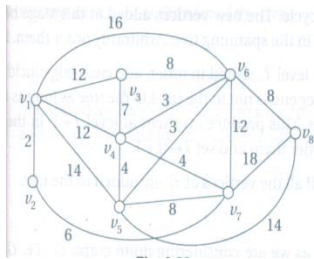


5. Apply the Dijkstra's method to find the Shortest distance and Shortest path between the specified vertices of the following graph

(i) Between a and f



(ii) Between v_1 and v_4



(iii) Between A and G

