```
2 The edges are :-
3 Edge from vertex 0 to vertex 1 with weight 5
4 Edge from vertex 0 to vertex 2 with weight 7
5 Edge from vertex 0 to vertex 3 with weight 3
6 Edge from vertex 1 to vertex 0 with weight 5
7 Edge from vertex 1 to vertex 4 with weight 2
8 Edge from vertex 1 to vertex 5 with weight 10
9 Edge from vertex 2 to vertex 0 with weight 7
10 Edge from vertex 2 to vertex 6 with weight 1
11 Edge from vertex 3 to vertex 0 with weight 3
12 Edge from vertex 3 to vertex 7 with weight 11
13 Edge from vertex 4 to vertex 1 with weight 2
14 Edge from vertex 4 to vertex 7 with weight 9
15 Edge from vertex 5 to vertex 1 with weight 10
16 Edge from vertex 5 to vertex 7 with weight 4
17 Edge from vertex 6 to vertex 2 with weight 1
18 Edge from vertex 6 to vertex 7 with weight 6
19 Edge from vertex 7 to vertex 3 with weight 11
20 Edge from vertex 7 to vertex 4 with weight 9
21 Edge from vertex 7 to vertex 5 with weight 4
22 Edge from vertex 7 to vertex 6 with weight 6
23 Edge from vertex 7 to vertex 8 with weight 5
24 Edge from vertex 8 to vertex 7 with weight 5
25 The vertices are Vertex 0 Vertex 1 Vertex 2 Vertex 3 Vertex 4 Vertex 5 Vertex
  6 Vertex 7 Vertex 8 Vertex 9
26
27 -----After applying Dijkstra's-----
28 Distance from vertex 1 to vertex 0 is 5
29 There is an edge between vertex 0 and vertex 1 in the tree.
30 Distance from vertex 1 to vertex 1 is 0
31 Vertex 1 is the start point.
32 Distance from vertex 1 to vertex 2 is 12
33 There is an edge between vertex 2 and vertex 0 in the tree.
34 Distance from vertex 1 to vertex 3 is 8
35 There is an edge between vertex 3 and vertex 0 in the tree.
36 Distance from vertex 1 to vertex 4 is 2
37 There is an edge between vertex 4 and vertex 1 in the tree.
38 Distance from vertex 1 to vertex 5 is 10
39 There is an edge between vertex 5 and vertex 1 in the tree.
40 Distance from vertex 1 to vertex 6 is 13
41 There is an edge between vertex 6 and vertex 2 in the tree.
42 Distance from vertex 1 to vertex 7 is 11
43 There is an edge between vertex 7 and vertex 4 in the tree.
44 Distance from vertex 1 to vertex 8 is 16
45 There is an edge between vertex 8 and vertex 7 in the tree.
46 Distance from vertex 1 to vertex 9 is infinity (the point is not reachable
  from the starting point).
47 The vertices in the tree when we start from 1 are
48 Vertex 0
49 Vertex 1
50 Vertex 2
51 Vertex 3
52 Vertex 4
53 Vertex 5
54 Vertex 6
55 Vertex 7
56 Vertex 8
57 Vertex 9 is not in the tree (Do not have a path from 1 to 9)
58
```

59 60 61	Process	finished	with	exit	code	0
. .						