Enter the number of nodes of the graph:

9

Enter the source Node:

0

Enter the Number of edges:

14

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 0

Vertex-2: 1

Weight: 4

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 0

Vertex-2: 7

Weight: 8

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 1

Vertex-2: 2

Weight: 8

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 1

Vertex-2: 7

Weight: 11

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 2

Vertex-2: 3

Weight: 7

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 2

Vertex-2: 8

Weight: 2

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 2

Vertex-2: 5

Weight: 4

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 3

Vertex-2: 4

Weight: 9

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 3

Vertex-2: 5

Weight: 14

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 4

Vertex-2: 5

Weight: 10

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 5

Vertex-2: 6

Weight: 2

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 6

Vertex-2: 7

Weight: 1

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 6

Vertex-2: 8

Weight: 6

Enter Vertex-1, Vertex-2 and weight of edge between Vertex-1,Vertex-2

Vertex-1: 7

Vertex-2: 8

Weight: 7

Source: Shortest Distance

0 0

1 4

2 17

3 24

4 33

5 21

6 9

7 8

8 15