DIJKSTRA ALGORITHM

Enter no. of vertices:5

enter the first vertex 1

enter the next vertex 2

enter the cost 4

do you want to enter another edge (1-yes 2-no)1

enter the first vertex

2

enter the next vertex 4

enter the cost 6

do you want to enter another edge (1-yes 2-no)1

enter the first vertex 1

enter the next vertex 4

enter the cost 2

do you want to enter another edge (1-yes 2-no)1

enter the first vertex 4

enter the next vertex 5

enter the cost 7

do you want to enter another edge (1-yes 2-no)1

enter the first vertex 3

enter the next vertex 5

enter the cost 6

do you want to enter another edge (1-yes 2-no)1

enter the first vertex 1

enter the next vertex 3

enter the cost 6

do you want to enter another edge (1-yes 2-no)1

enter the first vertex 2

enter the next vertex 4

enter the cost 9

do you want to enter another edge (1-yes 2-no)1

enter the first vertex 3

enter the next vertex 5

enter the cost 5

do you want to enter another edge (1-yes 2-no)2

V 1 V 2 V 3 V 4 V 5

V 1 0 4 6 2 0

V 2 0 0 0 9 0

V 3 0 0 0 0 5

V 4 0 0 0 0 7

V 5 0 0 0 0 0

Enter the starting Vertex:2

Vertex Known distance previous

V 1 0 999 0

V 2 1 0 0

V 3 0 999 0

V 4 0 999 0

V 5 0 999 0

Vertex Known distance previous

V 1 0 999 0

V 2 1 0 0

V 3 0 999 0

V 4 1 9 2

V 5 0 999 0

Vertex Known distance previous

V 1 0 999 0

V 2 1 0 0

V 3 0 999 0

V 4 1 9 2

V 5 1 16 4

final:

Vertex Known distance previous

V 1 0 999 0

V 2 1 0 0

V 3 0 999 0

V 4 1 9 2

V 5 1 16 4