OUTPUT:

[201603052@Putty ~]$ vi ford.c

[201603052@Putty ~]$ cc ford.c

[201603052@Putty ~]$ ./a.out

Enter the number of nodes : 4

Enter the cost matrix :

2

3

4

5

6

7

2

3

4

5

6

1

23

4

1

2

For router 1

node 1 via 1 Distance 0

node 2 via 2 Distance 3

node 3 via 3 Distance 4

node 4 via 4 Distance 5

For router 2

node 1 via 1 Distance 6

node 2 via 2 Distance 0

node 3 via 3 Distance 2

node 4 via 4 Distance 3

For router 3

node 1 via 1 Distance 4

node 2 via 2 Distance 5

node 3 via 3 Distance 0

node 4 via 4 Distance 1

For router 4

node 1 via 3 Distance 5

node 2 via 2 Distance 4

node 3 via 3 Distance 1

node 4 via 4 Distance 0

[201603052@Putty ~]$