

IS362 Project

By:

Student name	Student ID
Maysam Alzahrani	442200873
Noura alruwais	442200135

Instructor: L. Bodoor Alfares

Test Case

the test case from website:

	0	1	2	3	4	5	6	7
0		7	4	1	6			
1	7			6				
2	4				3		8	
3	1	6						
4	6		3					
5							8	7
6			8			8		
7						7		

the result from website(start vertex = 0):

Vertex	Known	Cost	Path
0	T	0	-1
1	T	7	0
2	T	4	0
3	T	1	0
4	T	6	0
5	T	20	6
6	T	12	2
7	T	27	5

0
0 1
0 2
0 3
0 4
0 2 6 5
0 2 6
0 2 6 5 7

The result from our program:

```
----- java program -----
Enter the number of vertices:
>> 8
Enter the Adjacency Matrix( 999 if no edge ):
>> 999 7 4 1 6 999 999 999
>> 7 999 999 6 999 999 999 999
>> 4 999 999 999 3 999 8 999
>> 1 6 999 999 999 999 999 999
>> 6 999 3 999 999 999 999 999
>> 999 999 999 999 999 999 8 7
>> 999 999 8 999 999 8 999 999
>> 999 999 999 999 999 7 999 999

Enter the source matrix:
>> 0
----- Shortest Full Path -----
0->1          *Cost: 7
0->2          *Cost: 4
0->3          *Cost: 1
0->4          *Cost: 6
0->2->6->5    *Cost: 20
0->2->6       *Cost: 12
0->2->6->5->7  *Cost: 27
-----
```