Data Structures and Algorithms Lab 13. Graph Algorithms

Subject Code: 17ECSP201 Lab No: 13 Semester: III

Date: 17 Nov 2017 **Batch:** C1

Question: New Year Celebrations Invitation

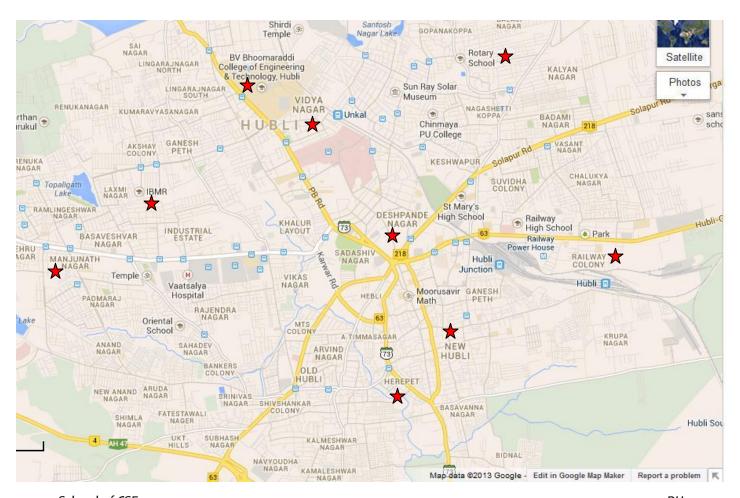
Objective: Usage appropriate data structures and algorithms in implementing a

graph problem

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Shrek is all excited to call his friends for the New Year celebrations in his start-up which is also about to complete one year. There is still more than a month left, but definitely calls for a proper plan. Its startup anniversary and a new-year celebration.

The first phase of the plan is to list out all his friends, make a travel plan to visit them for invitation. No calls, no messages. Shrek wants to keep it a personal invitation. He has noted down the places to visit and here they go as seen on google maps! (Marked in red star)



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DSA Lab 13: Graphs

Well, that's too many places to visit. His friend helped him with approximate travel charges that would incur for a few sources and destination. Here they go:

Source	Destination	Travel Cost
BVBCET	Rotary School	50
BVBCET	Vidyanagar	20
BVBCET	IBMR	90
Rotary School	Vidyanagar	30
Vidyanagar	IBMR	50
Vidyanagar	Deshpande Nagar	60
Rotary School	Deshpande Nagar	90
IBMR	Deshpande Nagar	70
IBMR	manjunath Nagar	30
Manjunath Nagar	Herepeth	100
IBMR	Herepeth	120
Herepeth	New Hubli	30
Deshpande Nagar	New Hubli	80
Deshpande Nagar	Railway Colony	70
New Hubli	Railway Colony	100

The destinations are known and costs are available. Help Shrek in deciding the proper order of visit. Shrek wants to start the journey from BVBCET (Off course, now known as KLE TECH).

Give Shrek the proper order of visit along with the total cost that will be incurred. A manual as well as the automated solution will be appreciated!

P.S. Sometimes it's the simple problems that come with the most complex computer solution!

** Happy Coding **

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