Problem

Find an Optimal Path at lowest cost of time as well as path cost on **Map of Romania.**

Code Provided:

Provided code file named A_Star.ipynb contains skeleton code which Connect the different cities of graph along with their cost

self.graph_dict contains cost of each edge traversal of (u,v)

Tasks to Perform:

1) Create All Connections of Romania Map in Code with following Function

graph.connect(Arad, Zerind, 75)

2) Create and store all heuristics (Straight Line Distance To **Bucharest** in this case) Provided in Example in **Heuristics** Dictionary defined in code in following Fashion

heuristics['Arad'] = 366

3) Implement A-Star function on Graph (Map of Romania) to find optimal path from source to destination with the help of Heuristics provided.

4) Run the code given at end to see all paths and shortest path find by your A_Start