ASSIGNMENT #02

This file includes the instructions for compiling and running the code written as a solution for Question#1 for Assignment#2.

SearchUSA.java

Prerequisites:
Installing the latest jdk version

```
add jdk
```

Compiling the code

```
javac SearchUSA.java
```

Running the Code

```
java SearchUSA <<search_type>> <<source_city>> <<destination_city>>
```

search_type:
The type of search you wish to perform between the cities. Search Type can take the following values -
   • astar: Perform A-Star search on the cities
   • greedy: Perform Greedy Best First Search on the cities
   • uniform: Perform Uniform Cost Search on the cities

source_city: The source city for this search

destination_city: The destination city for this search

Sample Test Case

```
java SearchUSA astar houston omaha

OUTPUT:
A-STAR SEARCH RESULT:
Expanded Cities: houston, mexia, dallas, beaumont, austin,
lafayette, batonRouge, sanAntonio, newOrleans, laredo,
pensacola, denver, coloradoSprings, tallahassee, elPaso,
albanyGA, wichita, albuquerque, macon, santaFe, atlanta,
chattanooga, nashville, lincoln, lakeCity,
Number of cities expanded: 25
Cities in final solution path: houston, mexia, dallas,
denver, wichita, lincoln, omaha,
Number of cities in solution path: 7
Total Distance(f) = 1898.0
```

Author: Akshay Nalwaya (Student ID: 200159155)

[This template for ReadMe file was taken from https://gist.github.com/PurpleBooth/109311bb0361f32d87a2]