

AI Assignment 2

This is a simple assignment in which the task is to find routes between a Source City, and a Destination City. The same can be achieved using a breadth first search, or an A-star search where the choice is given to the user.

Execution -

- Change directory to the folder of the assignment
- Use swipl command to load prolog in terminal
- Type ['distance.pl'] and press enter
- Type [heuristics.pl] and press enter
- These have loaded the helper files in memory
- Type ['main.pl'] and press enter
- Type start. and the program starts.

Screenshots

```
?- start.  
Welcome to Shortest Route Calculator  
Enter the name of the source city  
|: 'Agra'.  
Enter the name of the destination city  
|: 'Calicut'.  
  
How do you want to search for path ?  
Enter 1 for Breadth First Search  
Enter 2 for A* First Search  
Any other response leads to termination
```

```
How do you want to search for path ?  
Enter 1 for Breadth First Search  
Enter 2 for A* First Search  
Any other response leads to termination  
|: 2.  
  
choice is 2  
Path Taken is [Agra,Delhi,Meerut]  
Distance Travelled is 332  
  
Search Ended  
true .  
?- 
```

```
choice is 1  
  
Path Traversed is [Agra,Ahmedabad,Calicut]  
Distance Traverelled is 2526  
Search Ended  
true .  
?- 
```