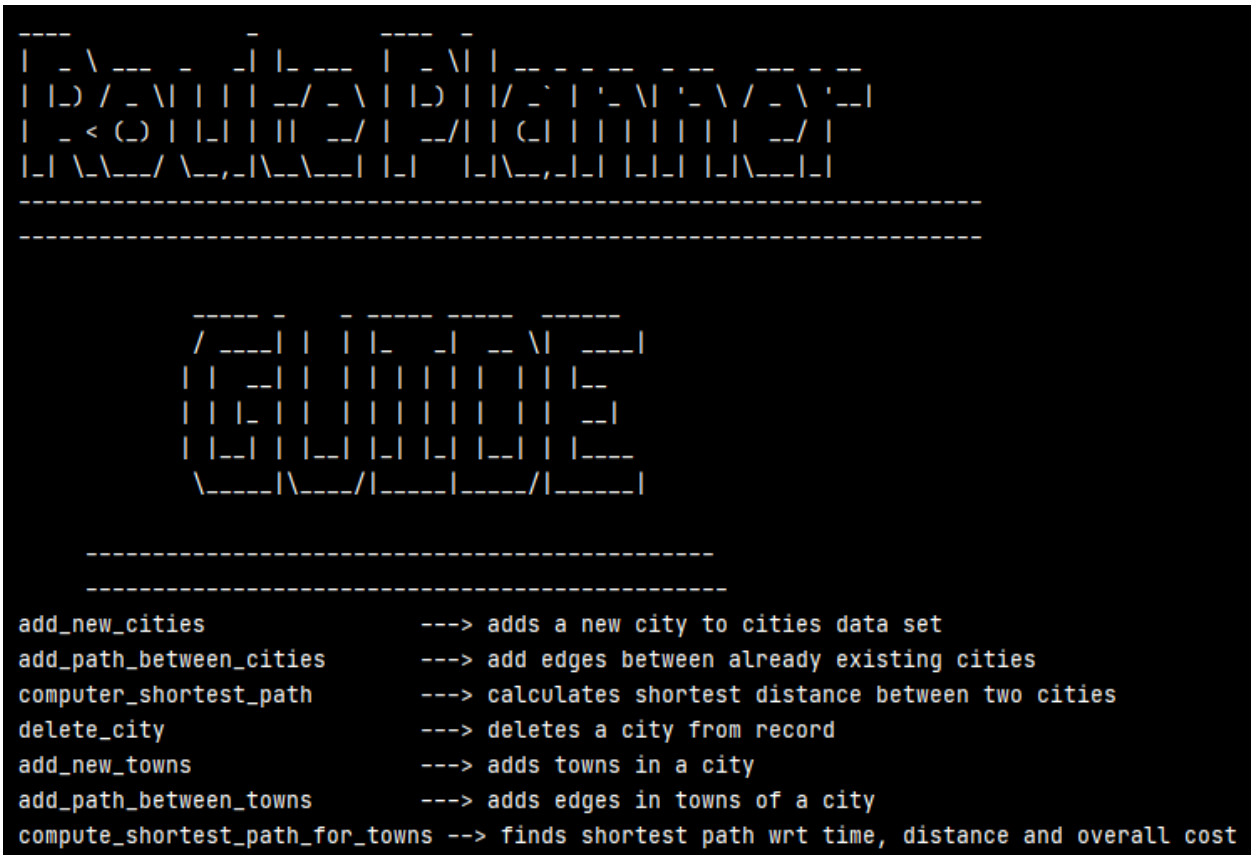
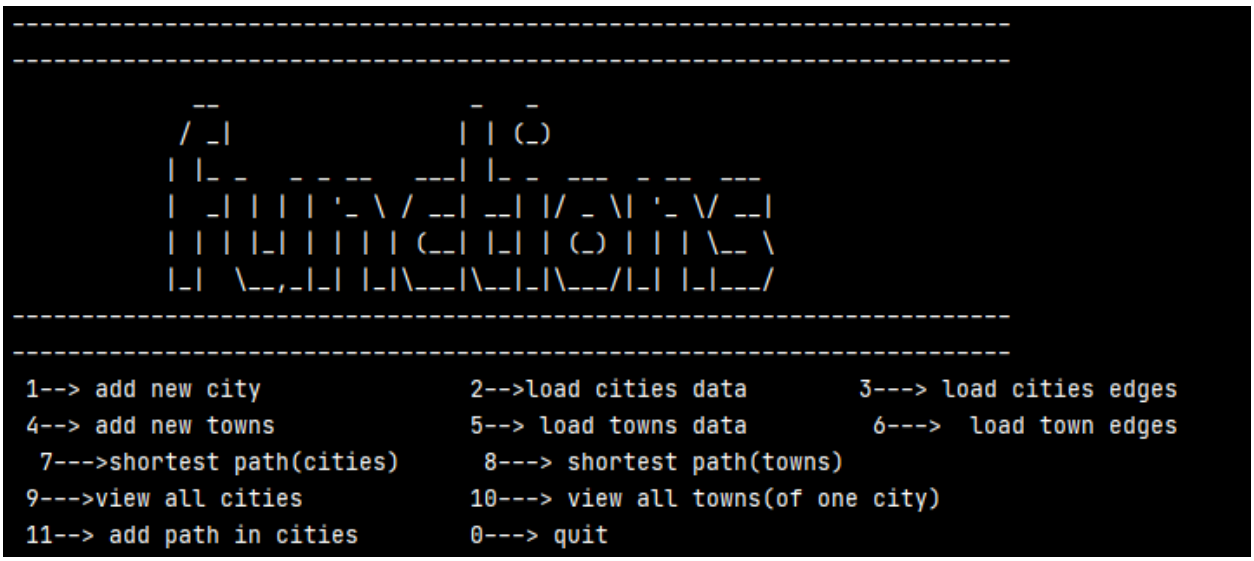
OUTPUTS:


add_new_cities ---> adds a new city to cities data set
add_path_between_cities ---> add edges between already existing cities
computer_shortest_path ---> calculates shortest distance between two cities
delete_city ---> deletes a city from record
add_new_towns ---> adds towns in a city
add_path_between_towns ---> adds edges in towns of a city
compute_shortest_path_for_towns --> finds shortest path wrt time, distance and overall cost


1--> add new city
2-->load cities data
3---> load cities edges
4--> add new towns
5--> load towns data
6---> load town edges
7--->shortest path(cities)
8---> shortest path(towns)
9--->view all cities
10---> view all towns(of one city)
11--> add path in cities
0---> quit

Shortest path between Cities:

```
 1--> add new city               2-->load cities data        3---> load cities edges
 4--> add new towns              5--> load towns data         6--->  load town edges
  7--->shortest path(cities)      8---> shortest path(towns)
 9--->view all cities            10---> view all towns(of one city)
 11--> add path in cities        0---> quit
2
 1--> add new city               2-->load cities data        3---> load cities edges
 4--> add new towns              5--> load towns data         6--->  load town edges
  7--->shortest path(cities)      8---> shortest path(towns)
 9--->view all cities            10---> view all towns(of one city)
 11--> add path in cities        0---> quit
3
 1--> add new city               2-->load cities data        3---> load cities edges
 4--> add new towns              5--> load towns data         6--->  load town edges
  7--->shortest path(cities)      8---> shortest path(towns)
 9--->view all cities            10---> view all towns(of one city)
 11--> add path in cities        0---> quit
7
Enter Starting City
lahore
Enter Destination City
islamabad
Optimal path with respect to time/ distance/ cost
time
```

```
Shortest path from  lahore to islamabad wrt  time is 310



lahore --> rawalpindi --> islamabad
```

Shortest Path inside city:

```
 1--> add new city               2-->load cities data        3---> load cities edges
 4--> add new towns              5--> load towns data         6--->  load town edges
  7--->shortest path(cities)      8---> shortest path(towns)
 9--->view all cities            10---> view all towns(of one city)
 11--> add path in cities        0---> quit
8
Enter city name
lahore
Enter starting Town
JoharTown
Enter destination town
ModelTown
Optimal path with respect to time/ distance/ cost
time


shortest path from  JoharTown to  ModelTown  has a cost  wrt time 14



FOLLOW THE SHORTEST PATH
JoharTown ---> FaisalTown ---> ModelTown
```