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Assignment 4 Report – Metro Routes

COMP110 Object-oriented Programming

Algorithm Explanation

This code is developed to simulate the metro routes for the particular metro lines in Istanbul. Coordinate information read from a file stored in arraylists. A simple metro line visual was created using these values. The overloaded method was used to show the metro route. And also outputs are also included in the method.

Program Outputs

Input-Output 1-

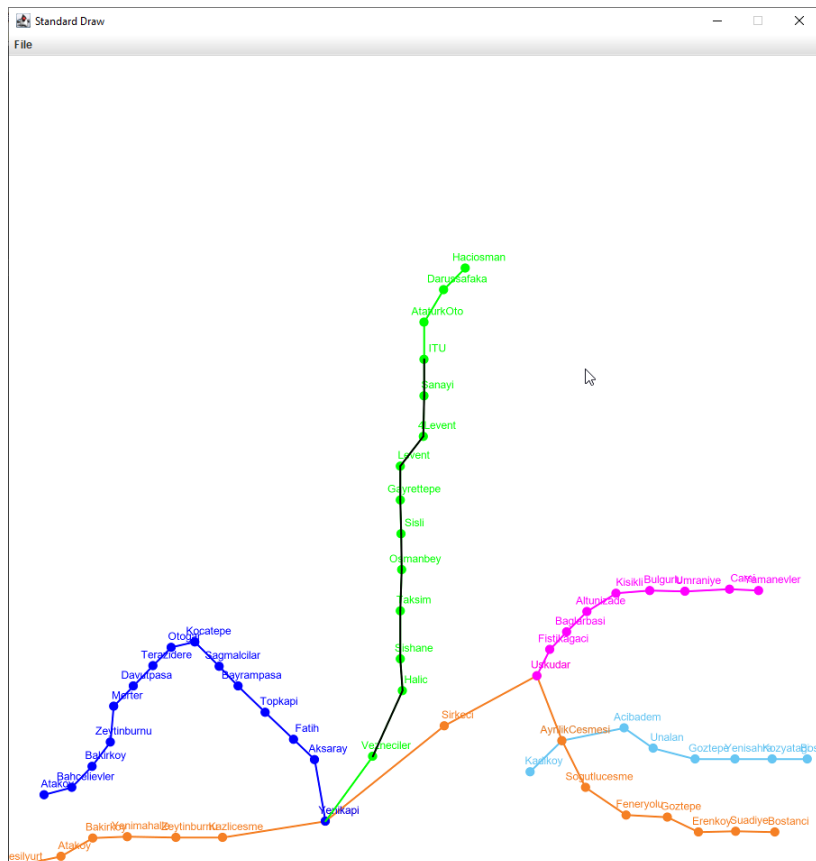
```
Enter starting station:
Bostanci
Enter destination station
Bostanci
Start and destination stations are the same!
```

Input-Output 2-

```
Enter starting station:
Kadikoy
Enter destination station
ITU
Kadikoy and ITU are not on the same metro line!
```

Input-Output 3-

```
Enter starting station:
Vezneciler
Enter destination station
ITU
Start:Vezneciler  Metrolines: M2
Destination:ITU  Metrolines: M2
Metroline: M2
Route: ITU<- Sanayi
Route: Sanayi<- 4Levent
Route: 4Levent<- Levent
Route: Levent<- Gayrettepe
Route: Gayrettepe<- Sisli
Route: Sisli<- Osmanbey
Route: Osmanbey<- Taksim
Route: Taksim<- Sishane
Route: Sishane<- Halic
Route: Halic<- Vezneciler
```



Input-Output 4

```
Enter starting station:
ITU
Enter destination station
Vezneciler
Start:ITU Metrolines: M2
Destination:Vezneciler Metrolines: M2
Metroline: M2
Route: ITU-> Sanayi
Route: Sanayi-> 4Levent
Route: 4Levent-> Levent
Route: Levent-> Gayrettepe
Route: Gayrettepe-> Sisli
Route: Sisli-> Osmanbey
Route: Osmanbey-> Taksim
Route: Taksim-> Sishane
Route: Sishane-> Halic
Route: Halic-> Vezneciler
```

