

Ali Gökçek

2021400012

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Assignment 1

CODE REPORT

Firstly, my code creates lists and arrays (basically sets of data) that includes important information from the input.txt file. This information are stations' names and coordinates, breakpoints and colors of lines. By doing that it groups them by their lines. Then gets the inputs from the user which are the station that we located and the station we want to reach. If there are no such stations it gives error message and stop the code working. Otherwise, it starts to find path. First it checks whether these two stations are on the same line. If it is yes, then basically show and print the path. But if it is not, it tries to find a breakpoint on the line that we located. Then goes there and starts to search for the destination point on another line that breakpoint connects. If it exists, the code goes there and show the path includes the former path (the path containing paths between starting point and breakpoints). If we still couldn't find, again starts to search for another breakpoint on the line and restarts the process. When there are no stations left that are not checked, It means that these lines do not connect. If the code finds a path, then its time to show on the screen. It draws stations, lines, background etc. by looking the data from the lists that we created before. For the animation part, it looks on the path and search the station names. When they match it gets the coordinates and draw a big orange circle. Then add this station to a new list that includes passed stations. It transfers big orange circle to the next station and draw small orange circle to the coordinates of passed stations. And it goes like that.

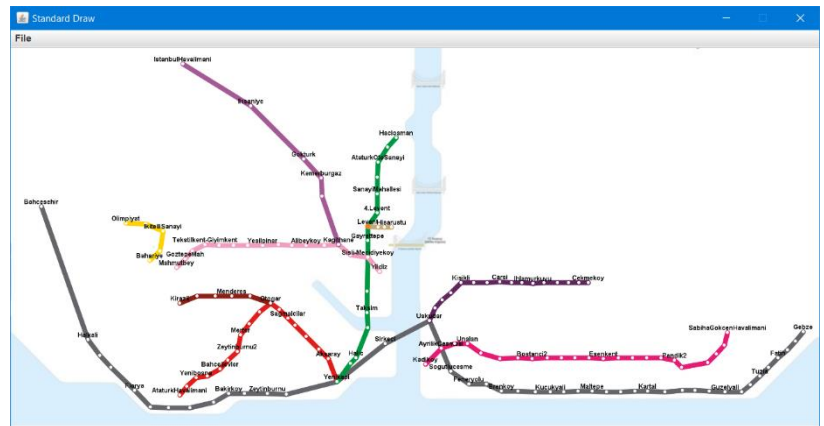
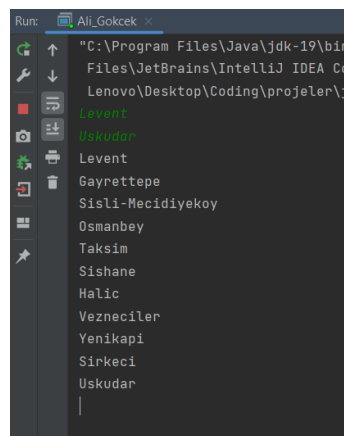
FIRST STEP:

Example 1:

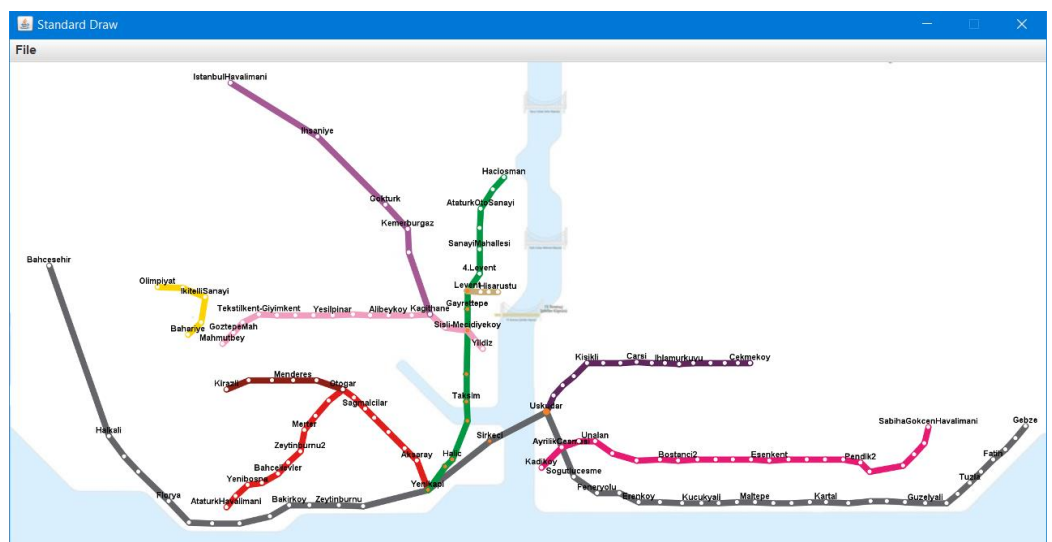
Inputs:

Levent

Uskudar



LAST STEP:



Example 2:

Inputs:

Aksaray

Bahariye

```
Run: Ali_Gokcek x
"C:\Program Files\Java\jdk-19\bin\jav
Files\JetBrains\IntelliJ IDEA Commu
Lenovo\Desktop\Coding\projeler\java\
Aksaray
Bahariye
These two stations are not connected
Process finished with exit code 1
```

Example 3:

Inputs:

Bogazici

Kadikoyyy

```
Run: Ali_Gokcek x
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:0
Files\JetBrains\IntelliJ IDEA Community Edition 2022.3.2
Lenovo\Desktop\Coding\projeler\java\ali_gokcek\out\produ
Bogazici
Kadikoyyy
The station names provided are not present in this map.
Process finished with exit code 1
```

Example 4:

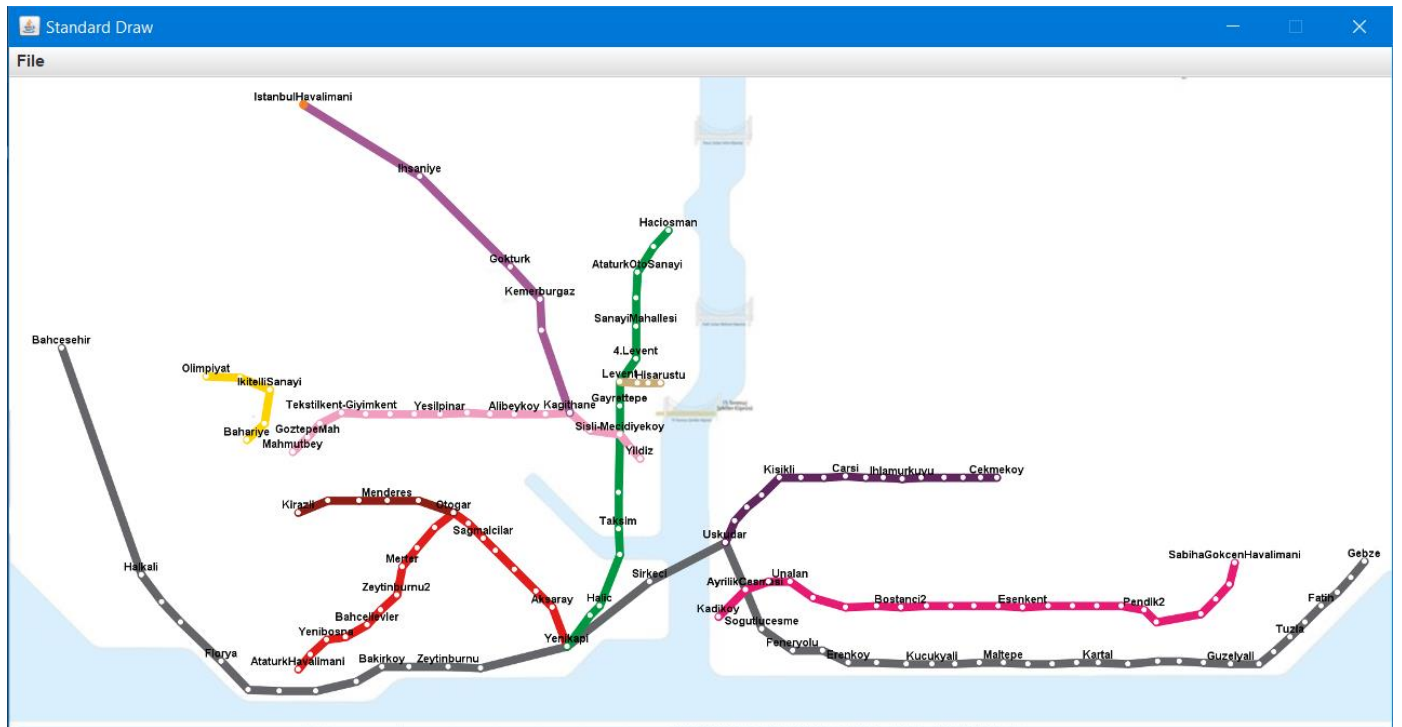
Inputs:

IstanbulHavalimani

SabihaGokcenHavalimani

```
Ali_Gokcek
Lenovo\Desktop\Coding\
IstanbulHavalimani
SabihaGokcenHavalimani
IstanbulHavalimani
Ihsaniye
Gokturk
Kemerburgaz
Hasdal
Kagithane
Caglayan
Sisli-Mecidiyekoy
Osmanbey
Taksim
Sishane
Halic
Vezneciler
Yenikapi
Sirkeci
Uskudar
AynlikCesmesi
Acibadem
Unalan
Goztepe2
Yenisahra
Kozyatagi
Bostanci2
Kucukyal12
Maltepe2
Huzurevi
Gulsuyu
Esenkent
Hastane-Adliye
Soganlik
Kartal2
Yakacik
Pendik2
Tavsantepe
FevziCakmak
Yayalar
Kurtkoy
SabihaGokcenHavalimani
```

FIRST STEP:



LAST STEP:

