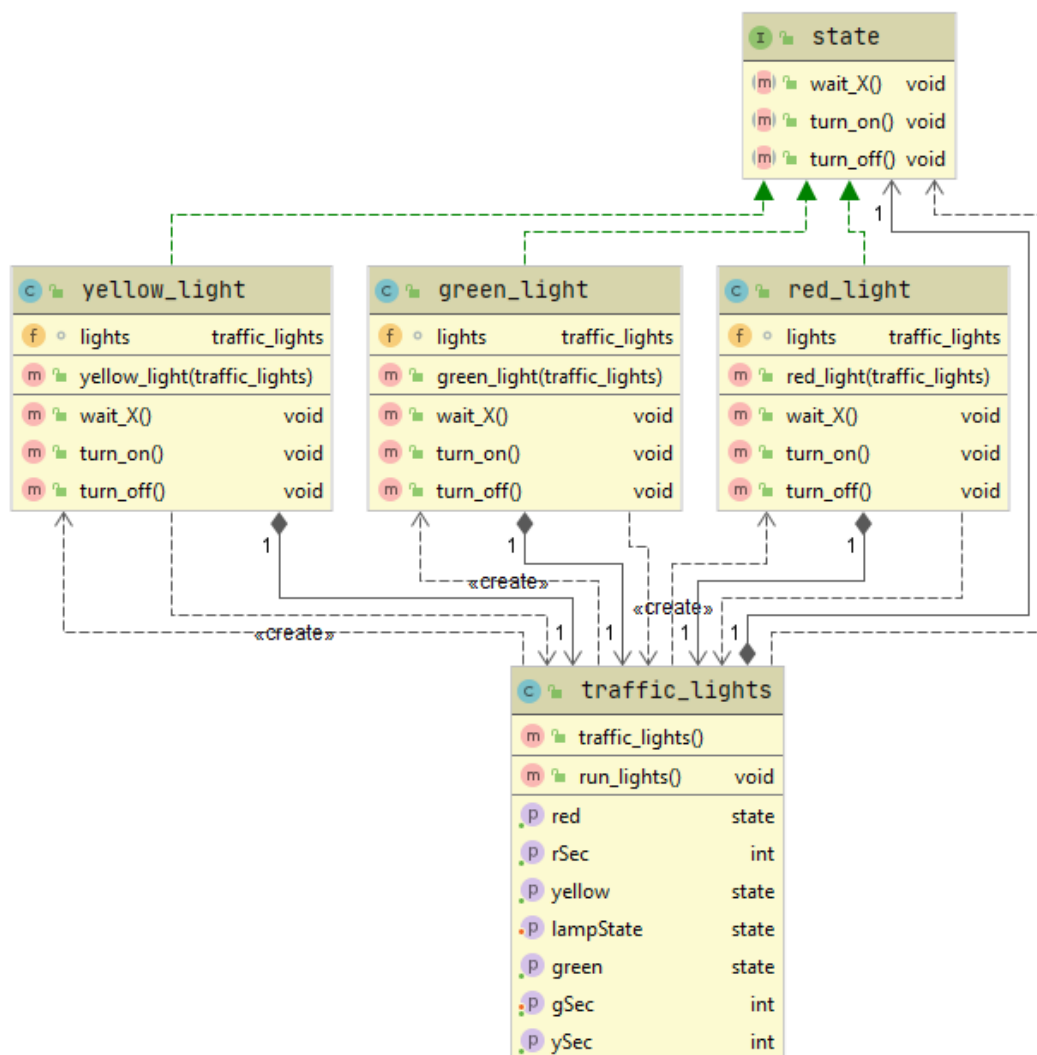
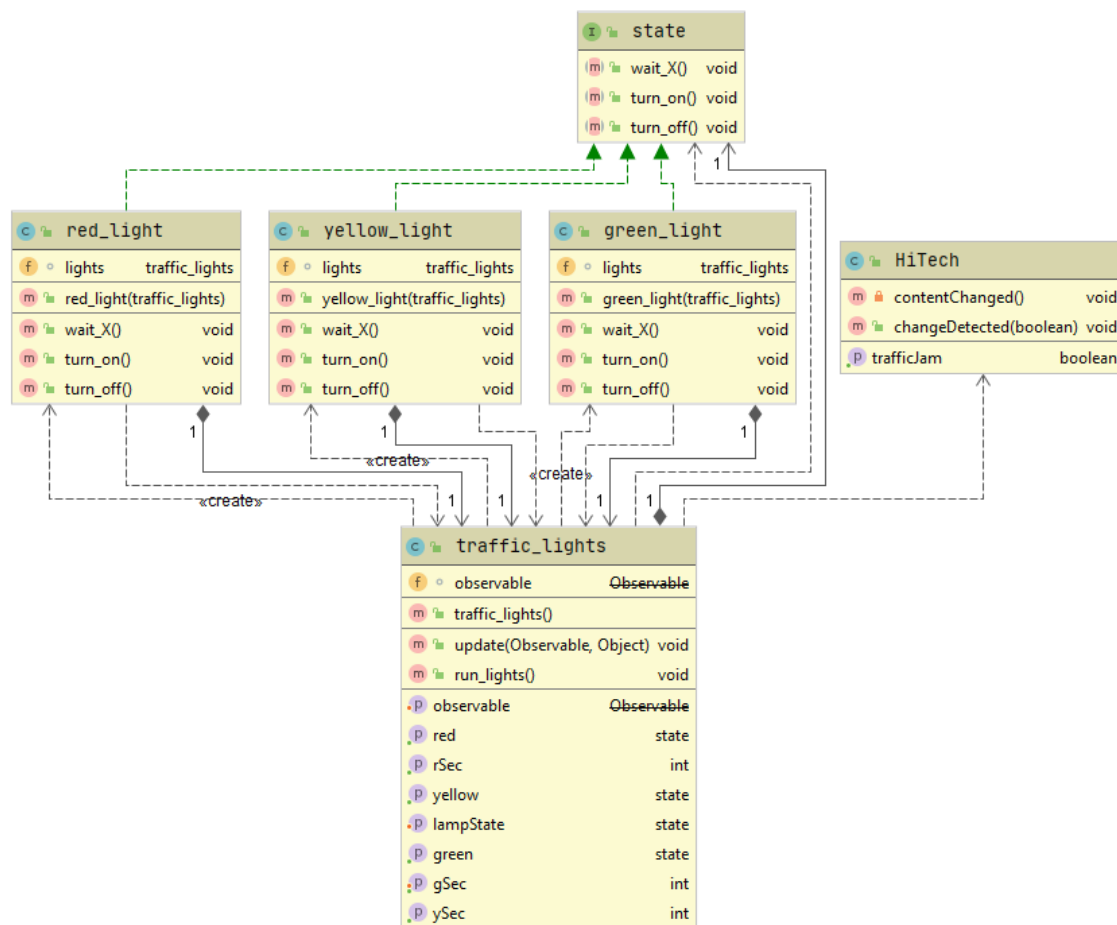


I thought of every color of the traffic light as a state. State interface consists of turn on, wait and turn off methods. Each state turns on the light, waits for a certain time and turns off the light and assigns the next state to the current state. traffic\_lights class is also a subscriber. If there is a change in the traffic situation, the HiTech Class reports that there is a change and the waiting time of the green\_light state changes.

Class Diagrams:



V2:



Output ==>

```
Administrator: Windows PowerShell
PS C:\Users\FERHAT\Desktop\00A\Homework 2\PART 3\executable> java -jar .\hw2_part3.jar

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

1
Red light opened
Waiting 15 seconds
Red light closed

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

1
Yellow light opened
Waiting 3 seconds
Yellow light closed

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

1
Green light opened
Waiting 60 seconds
Green light closed

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

2
1- Create Jam
2- Remove Jam

1
1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

1
Red light opened
Waiting 15 seconds
Red light closed

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

1
Yellow light opened
Waiting 3 seconds
Yellow light closed

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

1
Green light opened
Waiting 90 seconds
Green light closed

1- Run Traffic Lights
2- Change Traffic Jam
3- Exit

3
PS C:\Users\FERHAT\Desktop\00A\Homework 2\PART 3\executable>
```