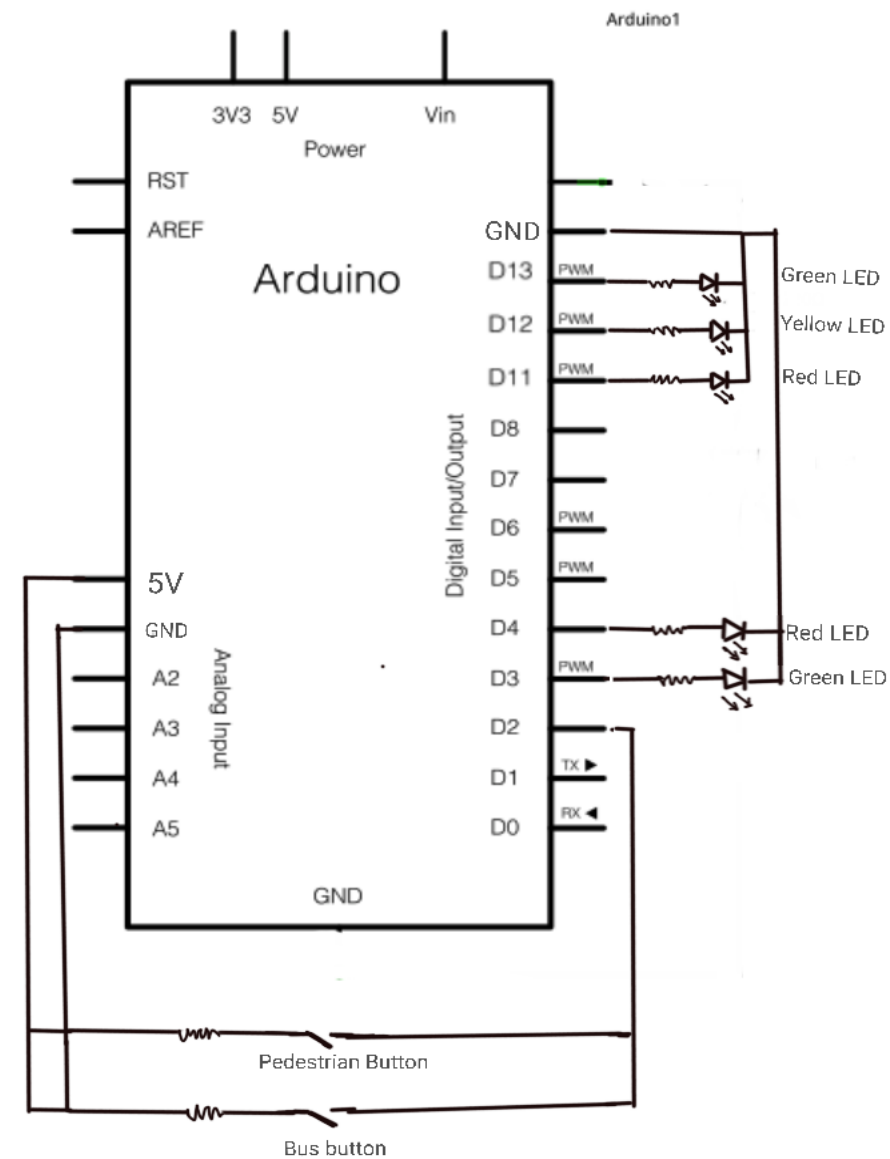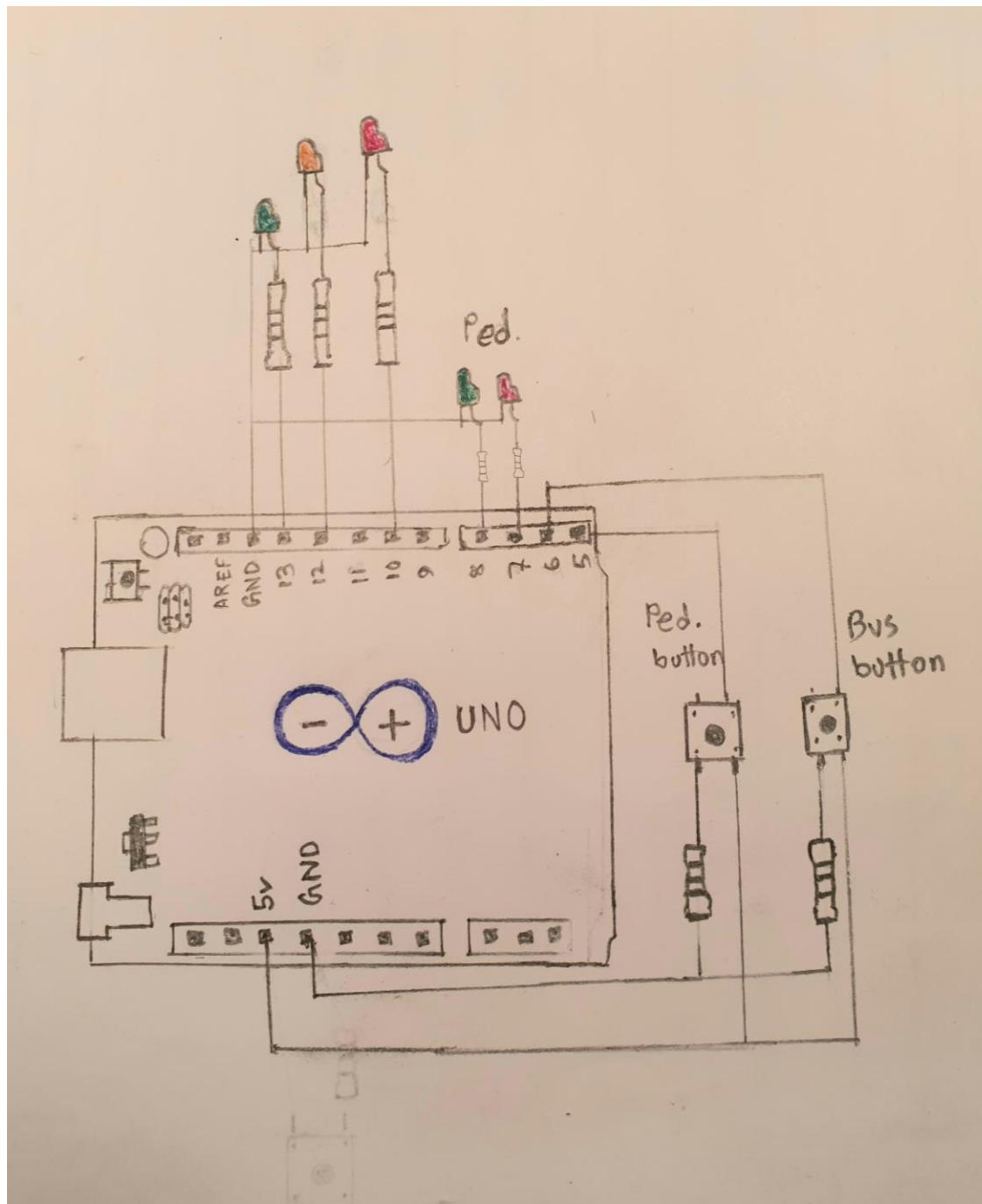# Traffic Light System.

- **Abdulla Al Forkan**
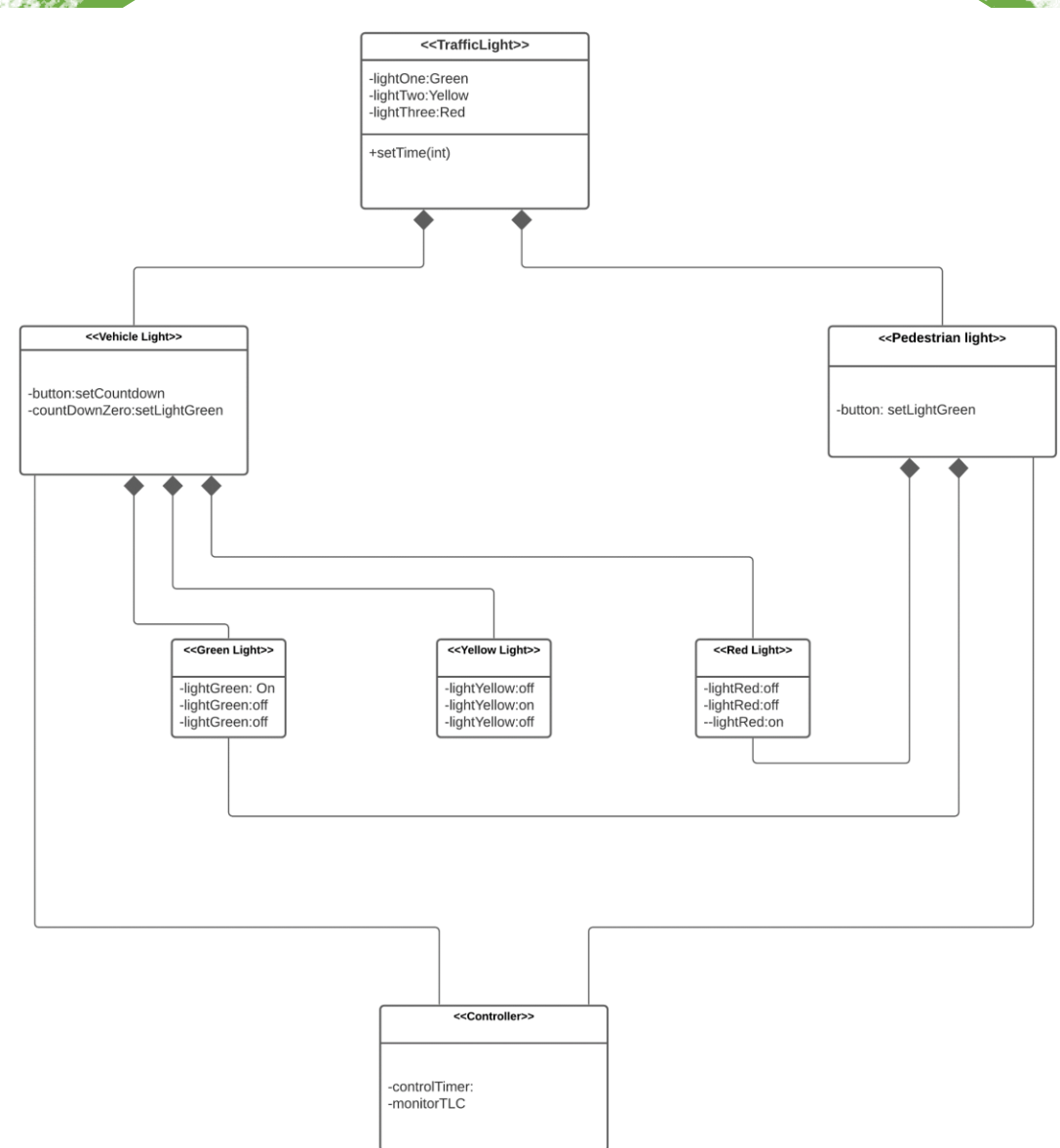- **Asadujaman Nur**
- **MD. Limon Apu**
- **Arfat Kamal**

Components:

1. Two green led
2. Two red led
3. One Yellow led
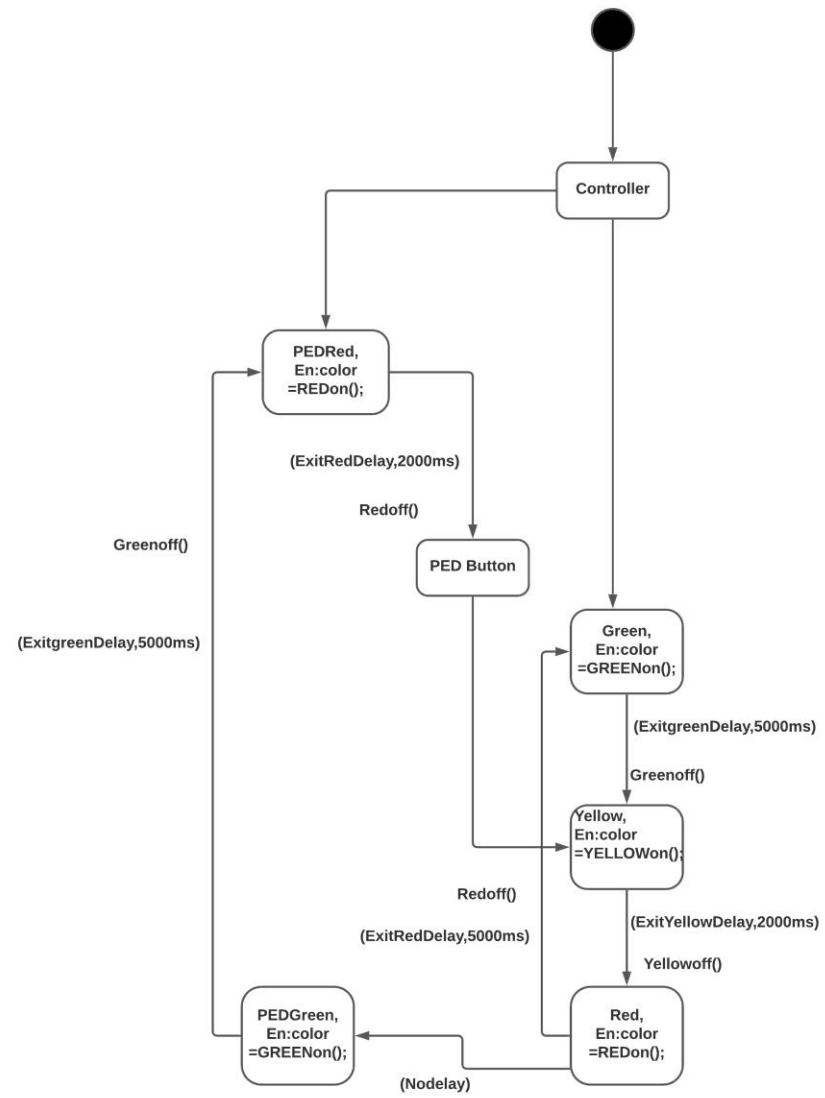4. Seven resistor
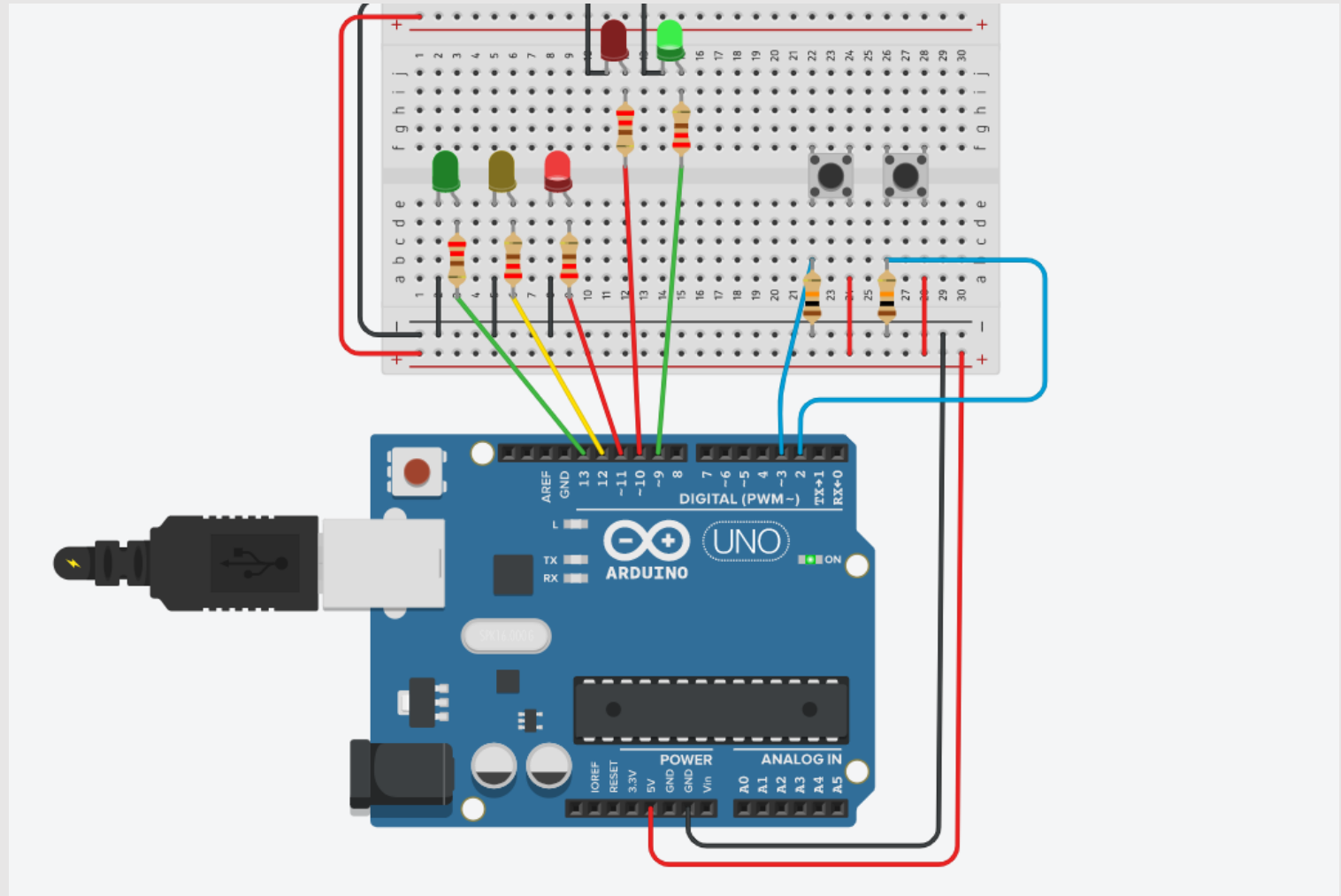5. Two push button
6. Arduino
7. Power source

Use Case

Dia gram

<<TrafficLight>>

-lightOne:Green
-lightTwo:Yellow
-lightThree:Red

+setTime(int)

<<Vehicle Light>>

-button:setCountdown
-countDownZero:setLightGreen

<<Pedestrian light>>

-button: setLightGreen

<<Green Light>>

-lightGreen: On
-lightGreen:off
-lightGreen:off

<<Yellow Light>>

-lightYellow:off
-lightYellow:on
-lightYellow:off

<<Red Light>>

-lightRed:off
-lightRed:off
--lightRed:on

<<Controller>>

-controlTimer:
-monitorTLC

State Machine Diagram

Arduino

Arfat Kamal

Simulation

Traffic Light

Arfat Kamal

Thank you for listening! 🌻