

## LAB – 09

### Traffic Light

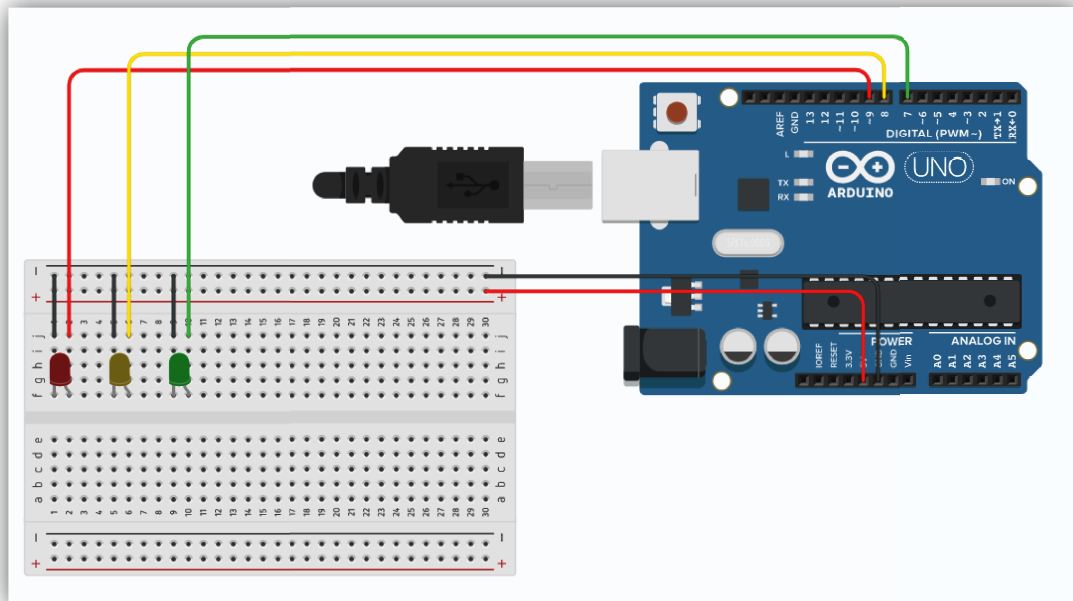
#### Aim:

To implement a program for Traffic Light using Arduino board.

#### Procedure:

- Connect the RED LED bulb to Arduino pin 4
- Connect the GREEN LED bulb to Arduino pin 3
- Connect the YELLOW LED bulb to Arduino pin 2
- Also connect three resistors. Take one end of each resistor and connect it to GND of the Arduino.
- Write the code and run to see the output.

#### PIN Diagram:



#### Code:

```
const int red = 3;

const int yellow = 4;

const int green = 2;

void setup() {

    // put your setup code here, to run once:

    pinMode(red, OUTPUT);

    pinMode(yellow, OUTPUT);

    pinMode(green, OUTPUT);

}

void loop() {

    // put your main code here, to run repeatedly:

    // Turn the LED on

    digitalWrite(red, LOW);

    digitalWrite(yellow, LOW);

    digitalWrite(green, HIGH);

    // Wait for 1 second

    delay(2000);

    digitalWrite(red, HIGH);

    digitalWrite(yellow, LOW);

    digitalWrite(green, LOW);

    // Wait for 1 second
```

```
delay(2000);  
digitalWrite(red, LOW);  
digitalWrite(yellow, HIGH);  
digitalWrite(green, LOW);  
    // Wait for 1 second  
delay(2000);  
return;  
}
```

**Result:**

Thus the Traffic light using Arduino is done successfully.