

Program no 01

Program Title: TRAFFIC-LIGHT

Aim

To demonstrate working of traffic light

Hardware Required

- Arduino Board
- Led Light x 3
- 1 ohm resistor x3

Circuit Diagram

TIN
KER
CAD

Traffic-Light

Saved

Code

Start Simulation

Export

Share

1

int red =13;

2

int yellow=11;

3

int green = 8;

4

5

void setup()

6

{

7

pinMode(13, OUTPUT);

8

pinMode(12, OUTPUT);

9

pinMode(11, OUTPUT);

10

}

11

12

void loop()

13

{

14

//red

15

digitalWrite(red, HIGH);

16

delay(2000);

17

digitalWrite(red, LOW);

18

19

20

//yellow

21

digitalWrite(yellow,HIGH);

22

delay(2000);

23

digitalWrite(yellow,LOW);

24

}

1 (Arduino Uno R3)

Serial Monitor

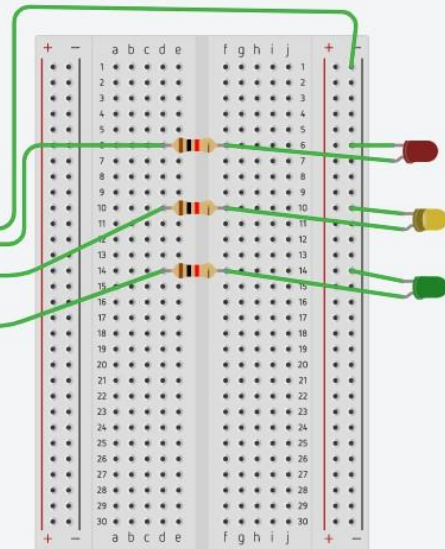
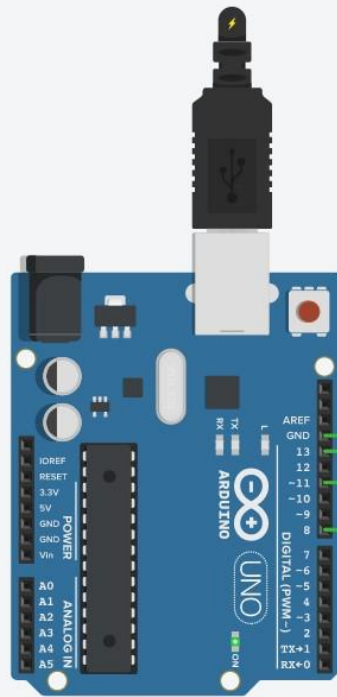
TIN
KER
CAD

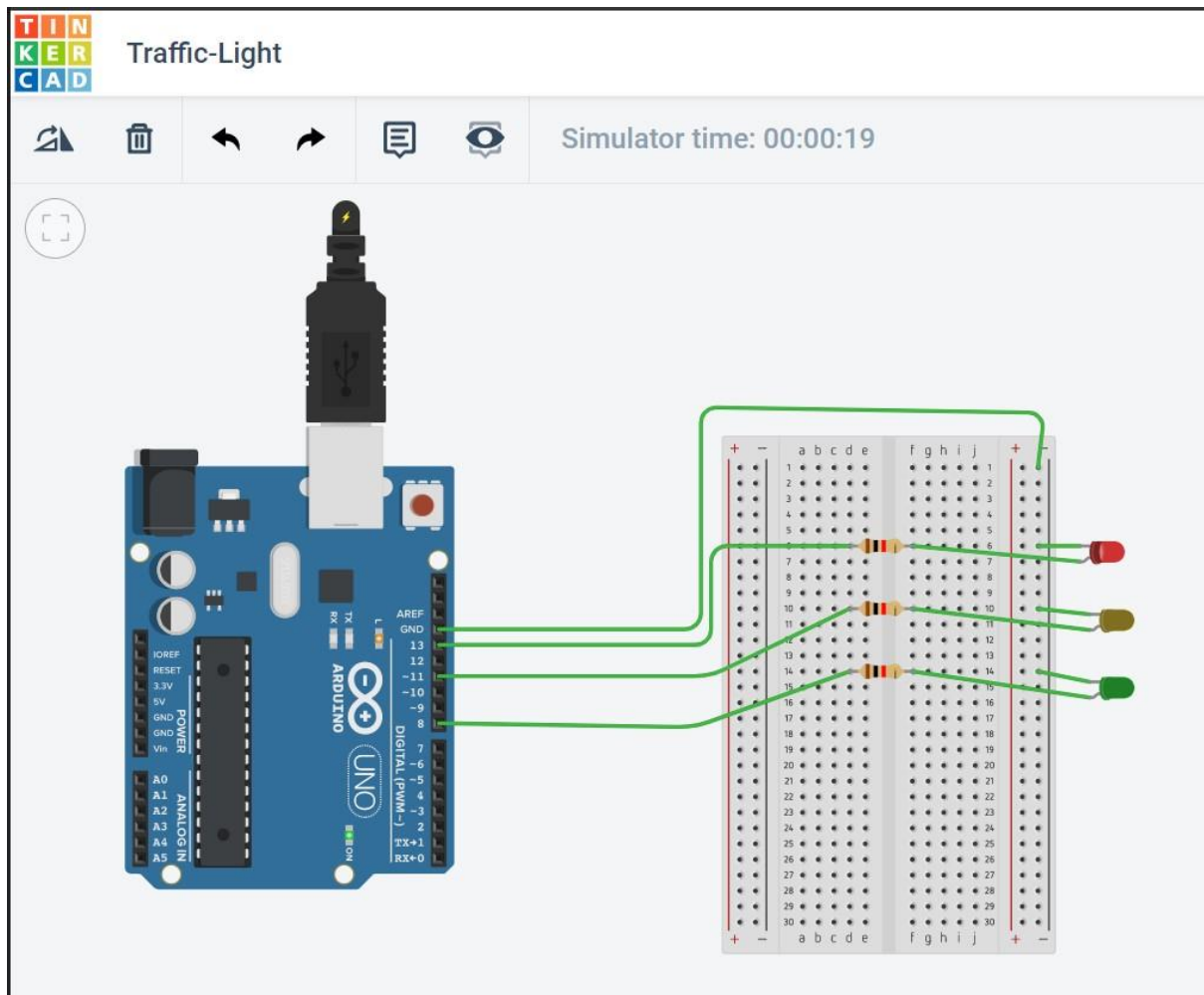
Traffic-Light

Simulator time: 00:00:04



Simulator time: 00:00:13





Code:

```
int red =13;
```

```
int yellow=11;
```

```
int green = 8;
```

```
void setup()
```

```
{  
  pinMode(13, OUTPUT);  
  pinMode(12, OUTPUT);  
  pinMode(11, OUTPUT);  
}
```

```
void loop()
```

```
{  
  //red  
  digitalWrite(red, HIGH);  
  delay(2000);  
  digitalWrite(red, LOW);
```

```
  //yellow  
  digitalWrite(yellow,HIGH);  
  delay(2000);  
  digitalWrite(yellow,LOW);
```

```
//green  
digitalWrite(green,HIGH);  
delay(4000);  
digitalWrite(green,LOW);  
delay(1500);  
}
```

Observation /Output:

The three Led's blink like a traffic signal after delays

