

Traffic Light

// Traffic Light Project - Arduino Uno

// Red, Yellow, and Green LEDs on pins 8, 10, and 12 respectively

void setup() {

// Set LED pins as output

pinMode(8, OUTPUT); // Red LED

pinMode(10, OUTPUT); // Yellow LED

pinMode(12, OUTPUT); // Green LED

}

void loop() {

//  RED light ON for 3 seconds

digitalWrite(8, HIGH);

delay(3000);

//  YELLOW light ON for 1 second

digitalWrite(10, HIGH);

delay(1000);

// Turn OFF Red and Yellow

digitalWrite(8, LOW);

digitalWrite(10, LOW);

```
// 🟢 GREEN light ON for 3 seconds
```

```
digitalWrite(12, HIGH);
```

```
delay(3000);
```

```
// Turn OFF Green
```

```
digitalWrite(12, LOW);
```

```
delay(500);
```

```
// 💡 Blink Green twice (to indicate it's about to stop)
```

```
for (int i = 0; i < 2; i++) {
```

```
    digitalWrite(12, HIGH);
```

```
    delay(500);
```

```
    digitalWrite(12, LOW);
```

```
    delay(500);
```

```
}
```

```
// Then repeat the whole cycle again
```

```
}
```

Connections:



