Additional answer of coursework 2

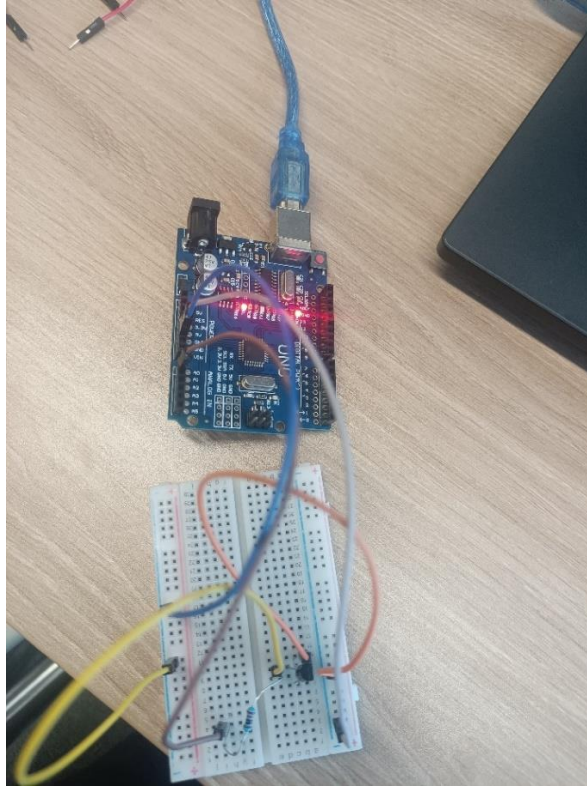## Jiyun Feng 20513510

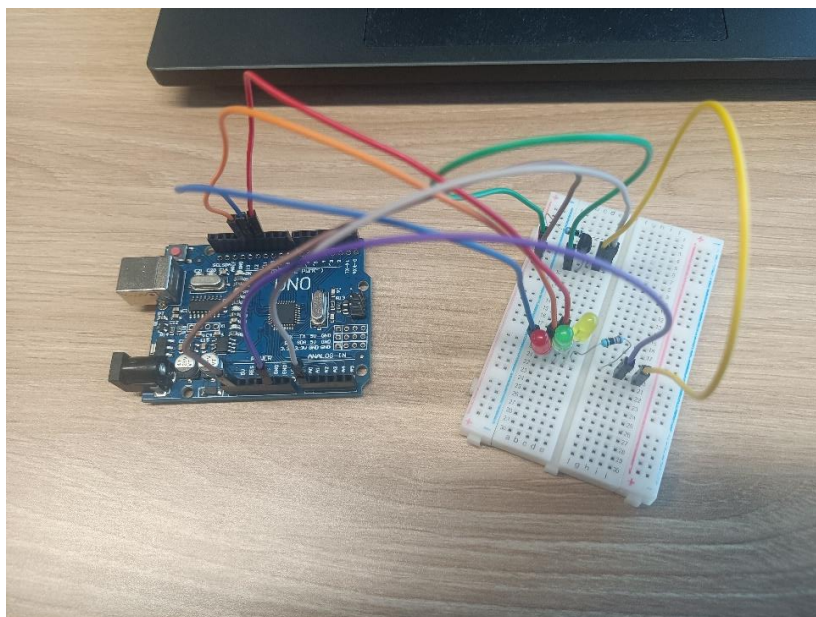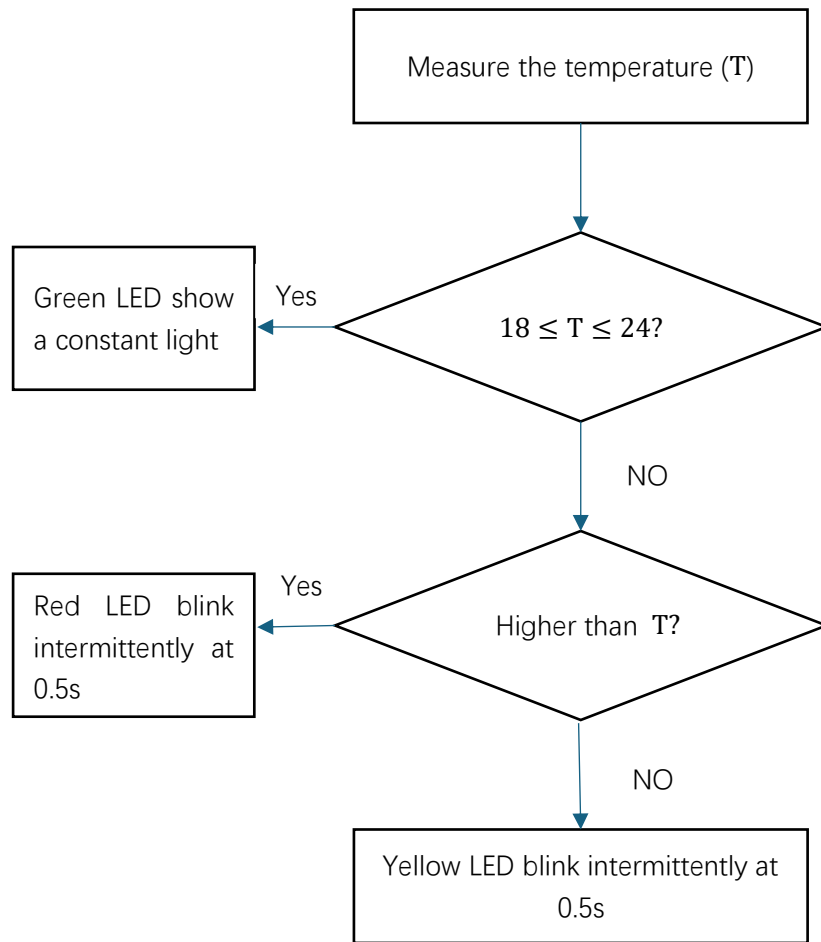GitHub link: violetviol/cw2 (github.com)

1. Additional answer of task 1

Figure 1.

2. Additional answer of task 2

Figure 2.

```
                              ┌──────────────────────────────┐
                              │  Measure the temperature (T) │
                              └──────────────┬───────────────┘
                                             │
                                             ▼
   ┌─────────────────┐    Yes            ◇ 18 ≤ T ≤ 24? ◇
   │ Green LED show  │◀──────────────
   │ a constant light│
   └─────────────────┘                       │ NO
                                             ▼
   ┌─────────────────┐    Yes            ◇ Higher than T? ◇
   │ Red   LED  blink│◀──────────────
   │ intermittently at│
   │ 0.5s            │                        │ NO
   └─────────────────┘                       ▼
                              ┌──────────────────────────────┐
                              │ Yellow LED blink intermittently at │
                              │            0.5s              │
                              └──────────────────────────────┘
```

Measure the temperature (T)

18 ≤ T ≤ 24?

Yes → **Green LED show a constant light**

NO ↓

Higher than T?

Yes → **Red LED blink intermittently at 0.5s**

NO ↓

Yellow LED blink intermittently at 0.5s

3. Additional answer of task 3

Measure the rate of change in temperature (R)

$R > 4°C/min?$

Yes → Red LED constant

NO

$R < -4°C/min?$

Yes → Yellow LED constant

NO

Green LED constant