GEBZE TECHNİCAL UNIVERTİSY

ELEC 335
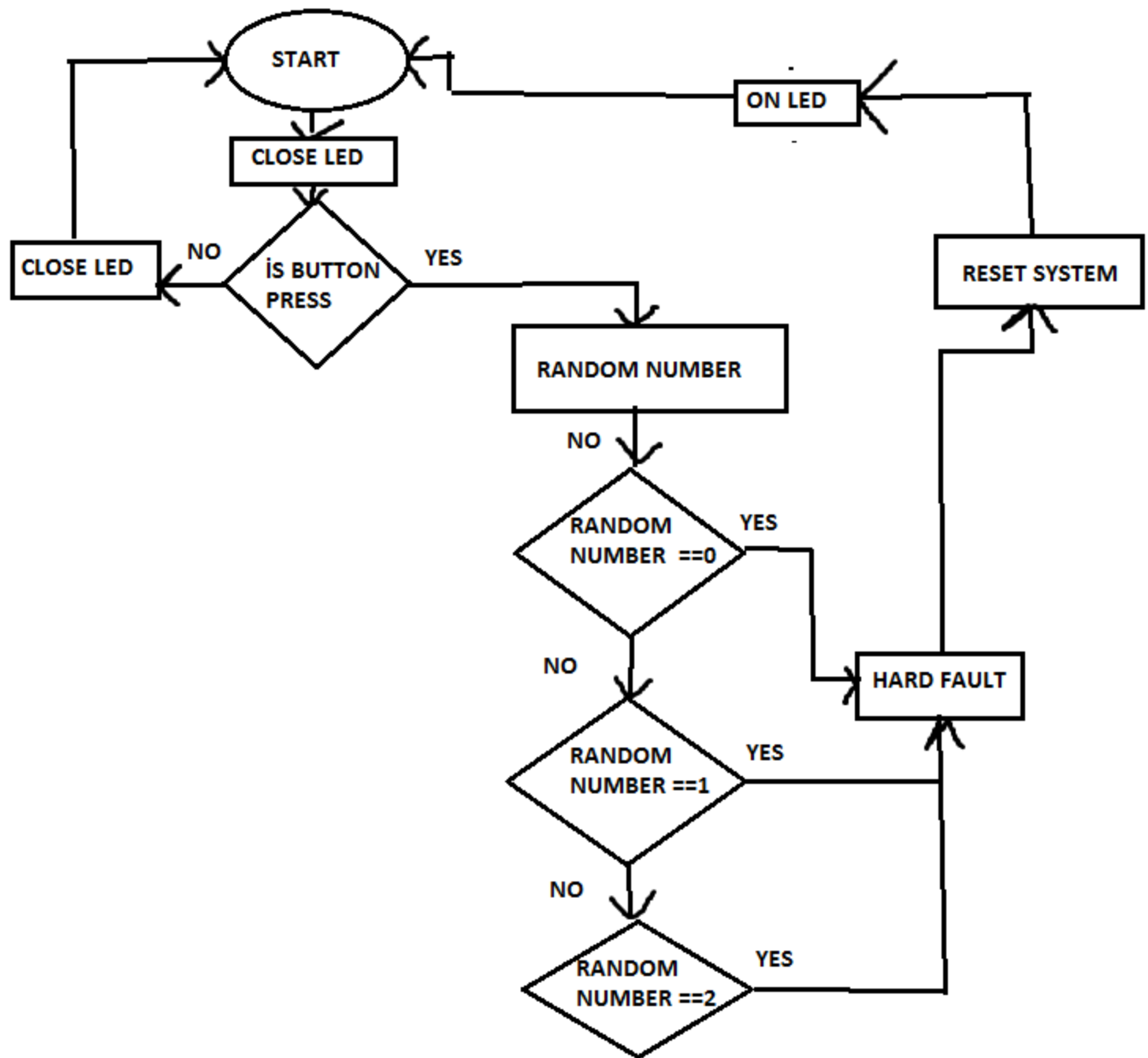
LAB 3 REPORT

BERKAY TÜRK
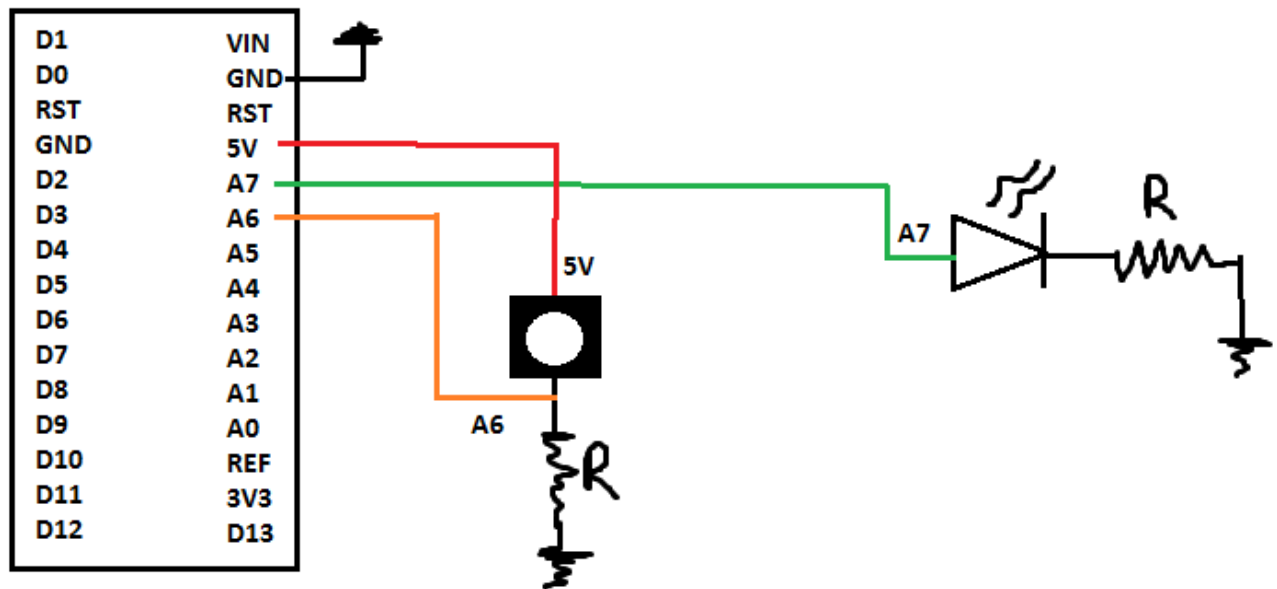
171024024

PROBLEM 1:

Create the Hard Fault Handler and some faults.

```
                              START  ◄─────────────────────────────  ON LED  ◄──────────┐
                                │                                                        │
                                ▼                                                        │
                           CLOSE LED                                                     │
                                │                                                        │
                                ▼                                                        │
              NO          IS BUTTON        YES                                    RESET SYSTEM
  CLOSE LED  ◄────────      PRESS      ────────►                                        ▲
                                                    │                                    │
                                                    ▼                                    │
                                            RANDOM NUMBER                                │
                                                    │                                    │
                                              NO    ▼                                    │
                                                                                         │
                                            RANDOM          YES                          │
                                          NUMBER ==0   ──────────►                       │
                                                                      │                  │
                                              NO    │                 │                  │
                                                    ▼                 ▼                  │
                                                              HARD FAULT                 │
                                            RANDOM          YES    ▲                     │
                                          NUMBER ==1   ──────────► │                     │
                                                                                         │
                                              NO    │                                    │
                                                    ▼                                    │
                                            RANDOM          YES                          │
                                          NUMBER ==2   ─────────────────────────────────┘
```
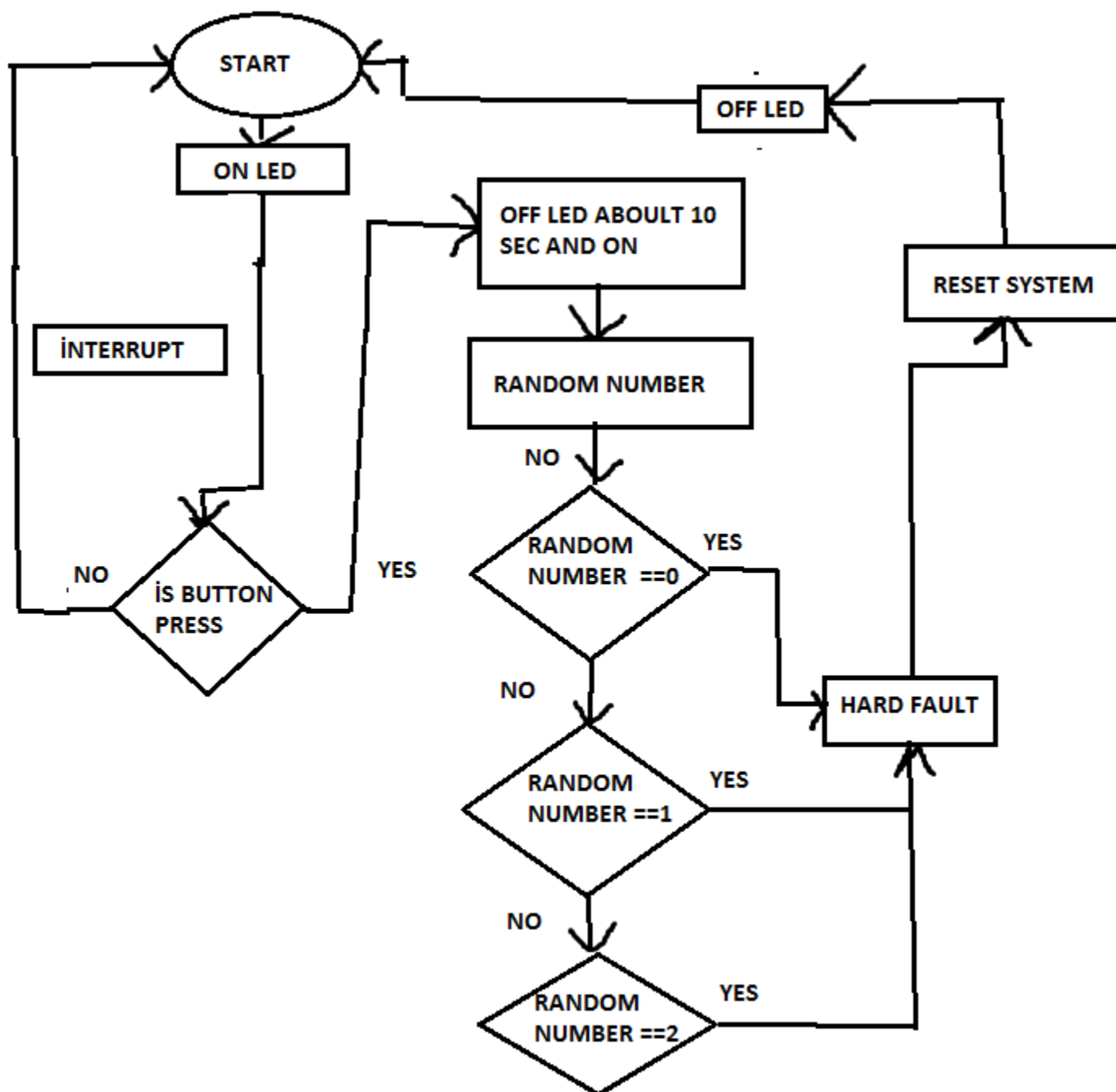
Flowchart

Connection Diagram

1.Problem video:

https://youtu.be/n6Et8FL-XDw

PROBLEM 2:

interrupt and hard fault creating.

Flowchart
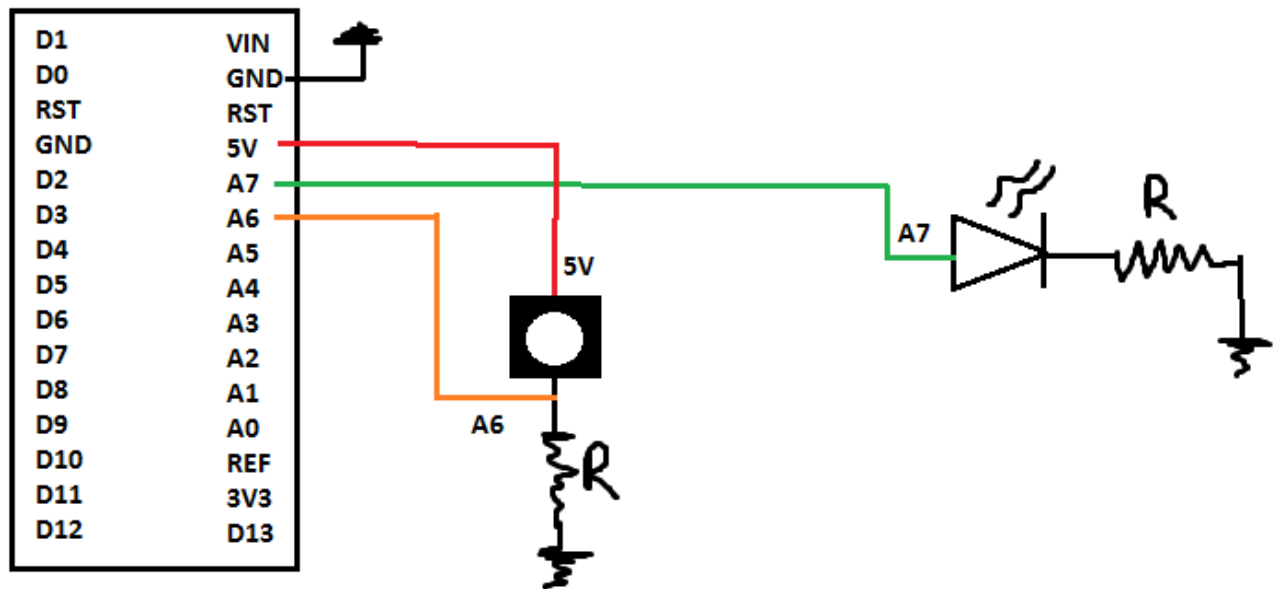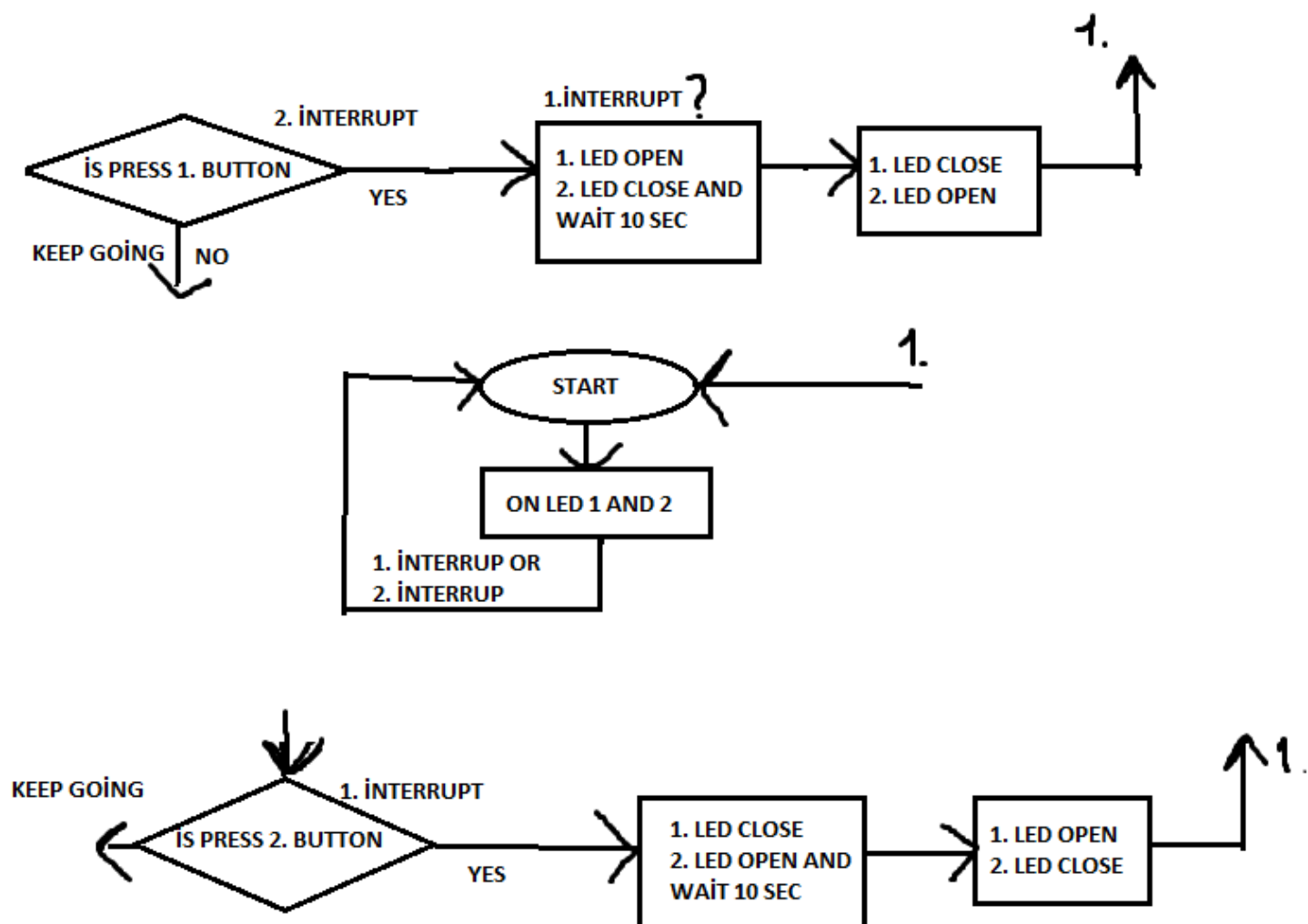
Connection Diagram

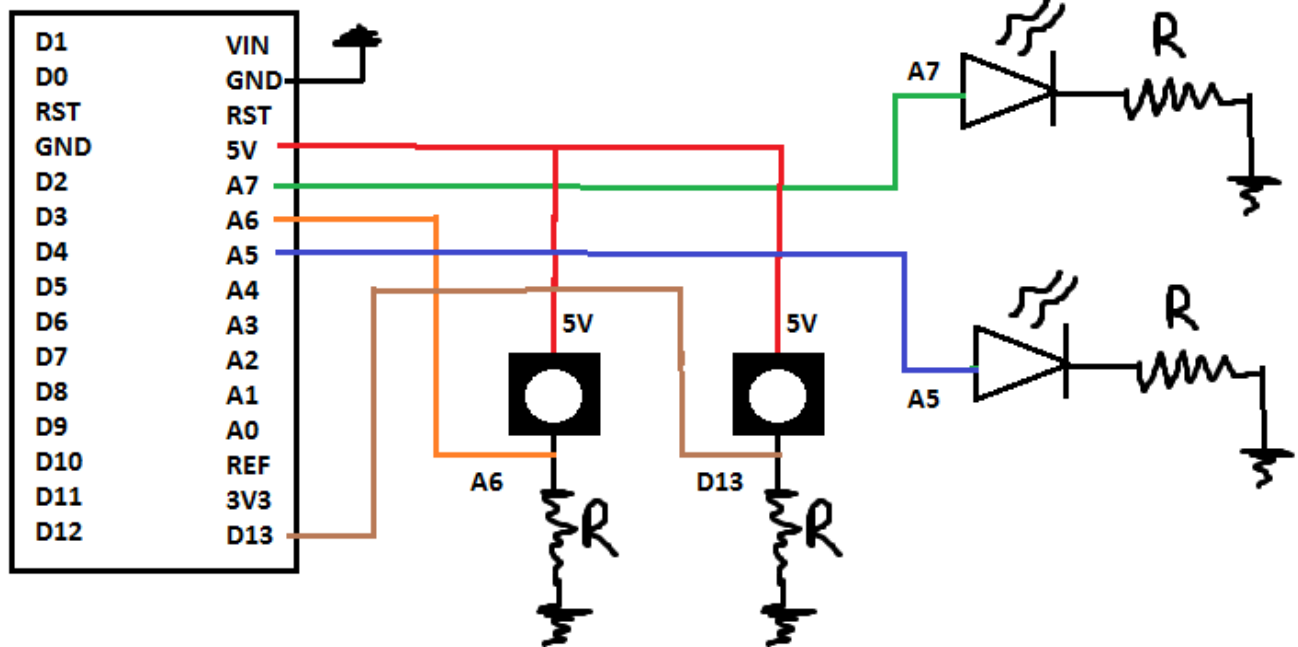**2.Problem video:**

https://youtu.be/RsXsTNfSUXo

PROBLEM 3:

Connect two leds and two buttons and first turn on/off high priority interrupt.

Flowchart

Connection Diagram

3.Problem video:

https://youtu.be/jY2qsupsOTk