Schematic:

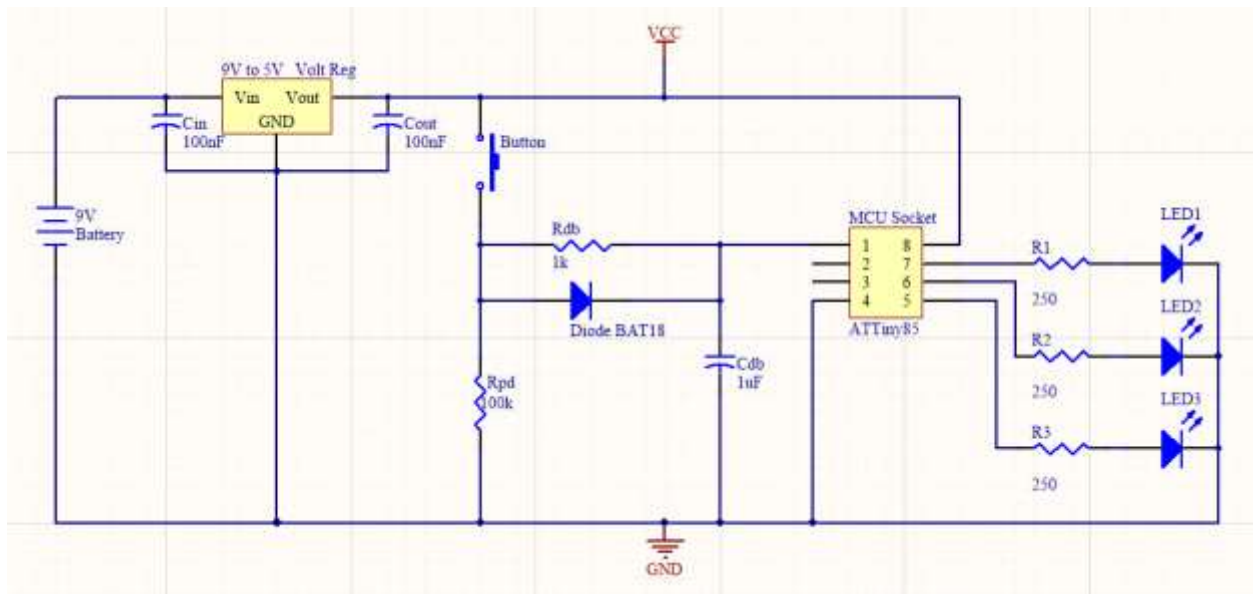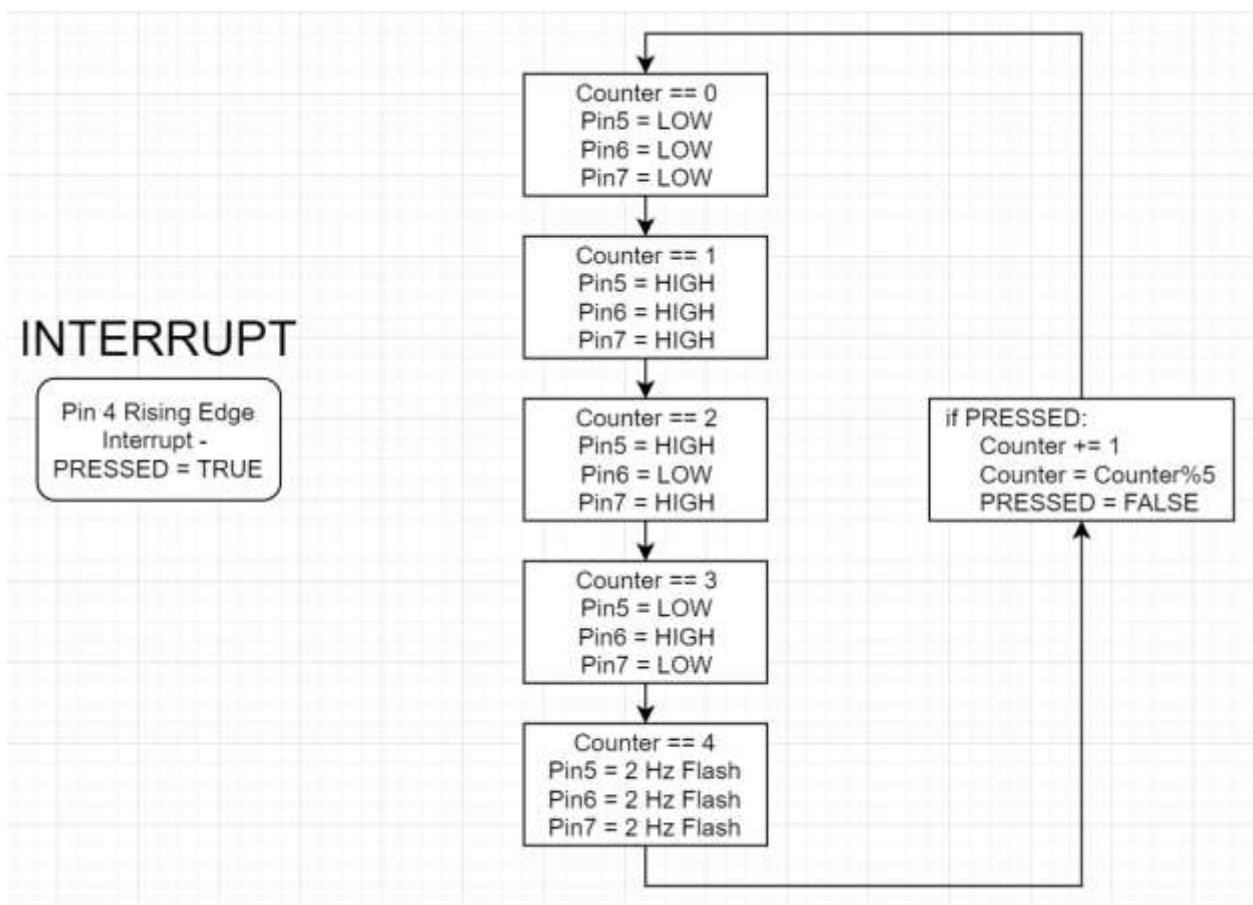**Software Flowchart:**

Pseudo Code:

Interrupt – Button state – rising edge on Pin 4 – PRESSED = TRUE
counter = 0
loop()
       If PRESSED
              counter += 1
              counter = counter%5
              PRESSED = FALSE
       Switch case:
              Case 1: counter == 0
                     Pin5 = LOW
                     Pin6 = LOW
                     Pin7 = LOW
              Case 2: counter == 1
                     Pin5 = HIGH
                     Pin6 = HIGH
                     Pin7 = HIGH
              Case 3: counter == 2
                     Pin5 = HIGH
                     Pin6 = LOW
                     Pin7 = HIGH
              Case 4: counter == 3
                     Pin5 = LOW
                     Pin6 = HIGH
                     Pin7 = LOW
              Case 5: counter == 4
                     Pin5 = 2 Hz Flashing (PWM)
                     Pin6 = 2 Hz Flashing (PWM)
                     Pin7 = 2 Hz Flashing (PWM)