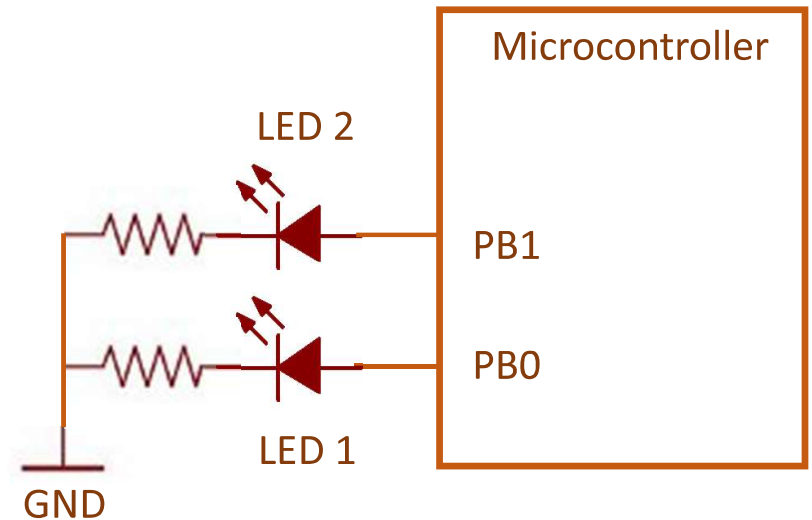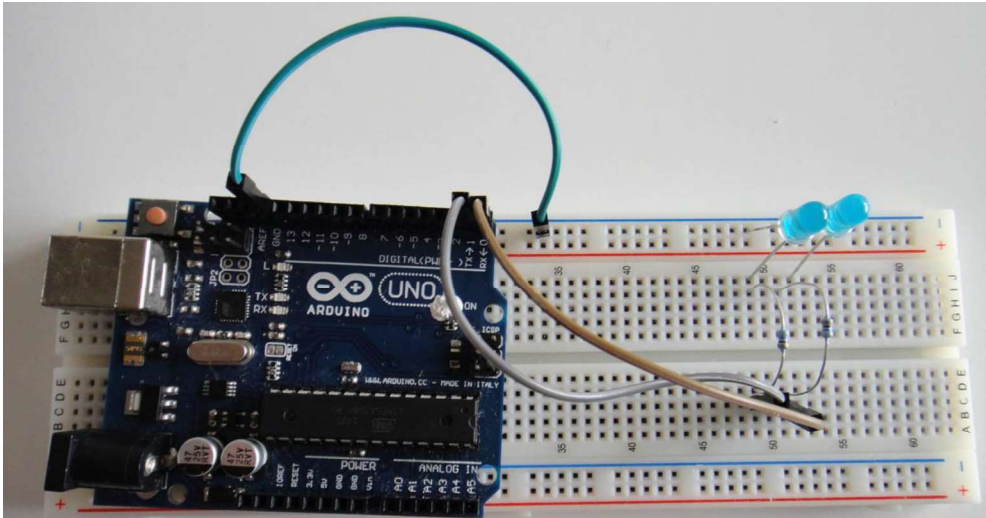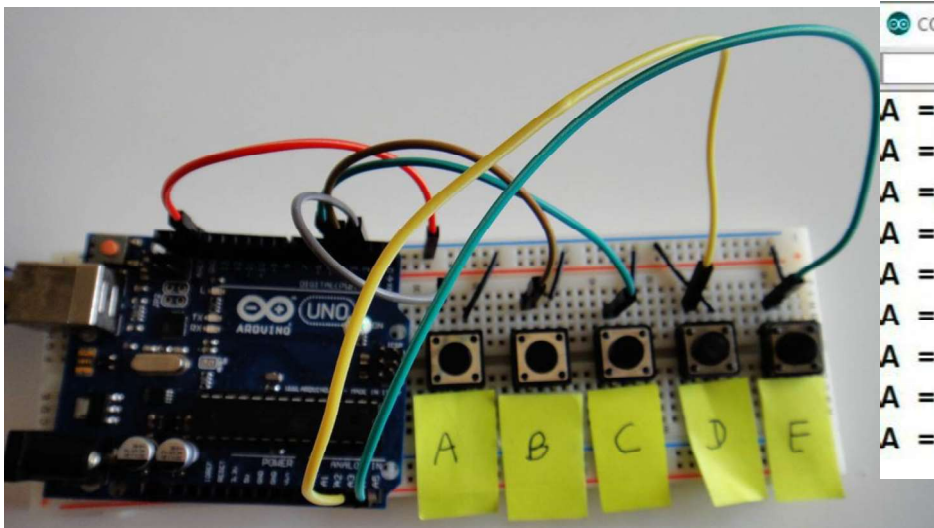# Example 7

There are two LEDs whose anodes are connected to PB0 and PB1 respectively. The LED 1 needs to be flashing with ON time 750 ms and OFF time 350 ms. The LED 2 needs to be flashing with ON time 400 and OFF time 600 ms.

Example 8

Five switches (A,B, C, D, and E) are connected to ATmega328p as shown below. The microcontroller needs to keep track of how many times each button has been pressed. Whenever any button has been pressed, the microcontroller needs to send out the information (of how many times each button has been pressed) through the serial port. Program the microcontroller to accomplish this.

COM6 (Arduino/Genuino Uno)

```
A = 1 B = 0 C = 0 D = 0 E = 0
A = 1 B = 1 C = 0 D = 0 E = 0
A = 1 B = 1 C = 1 D = 0 E = 0
A = 1 B = 1 C = 1 D = 1 E = 0
A = 1 B = 1 C = 1 D = 1 E = 1
A = 2 B = 1 C = 1 D = 1 E = 1
A = 2 B = 2 C = 1 D = 1 E = 1
A = 2 B = 2 C = 2 D = 1 E = 1
A = 2 B = 3 C = 2 D = 1 E = 1
```

Microcontroller

PB2

PB3

PB4

PC4

PC5

GND