

Ga-wun Kim

ENGR 270

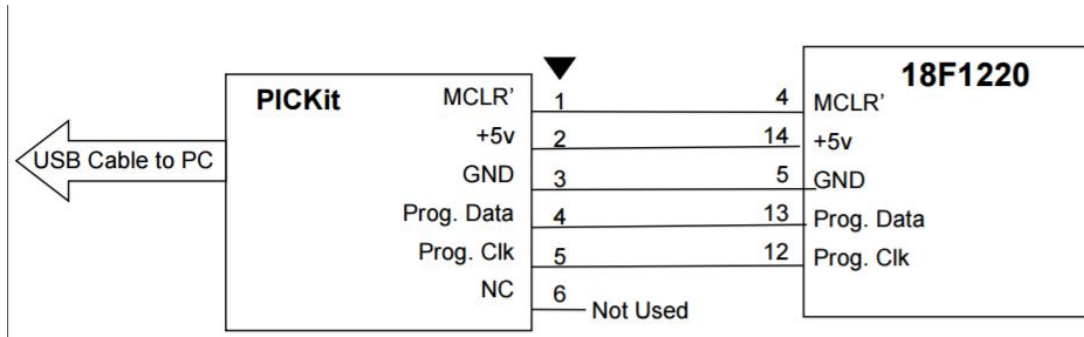
Scott Koss

Lab Partners: Rebecca, Kantas

# Computer and Organization & Microprocessors Lab #1

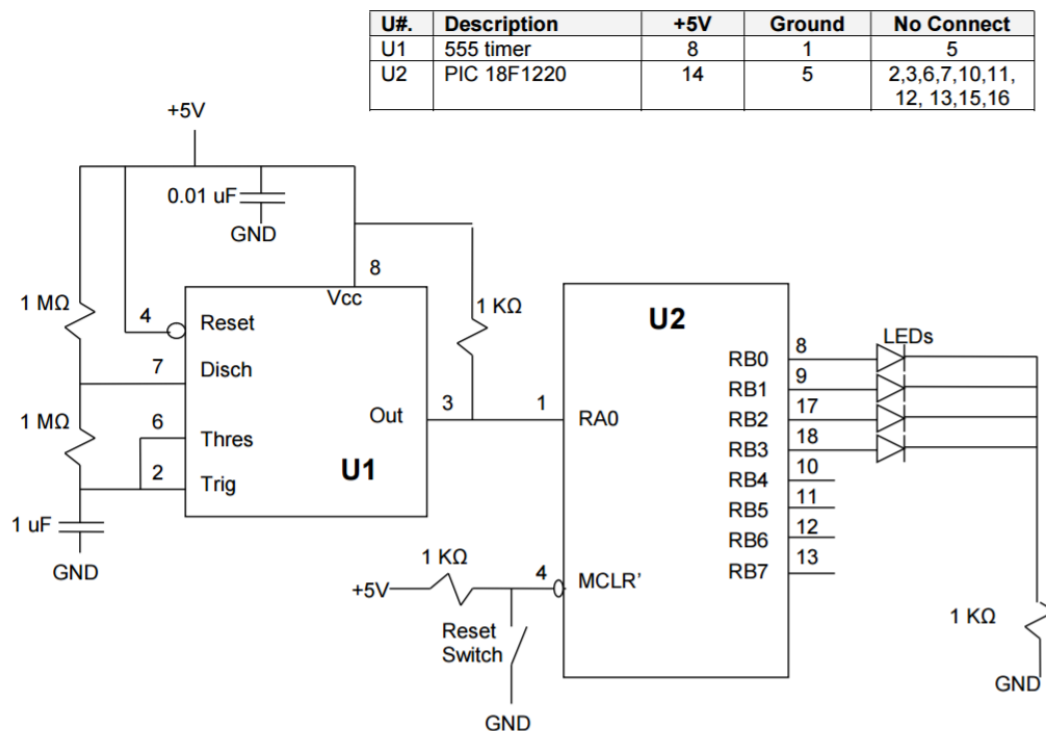


After that, by following remain steps; such as debugging, simulating, and inserting 0x80~0x83; we inserted the codes into the chip(PIC18F1220) by using 6 pins. We connected this pins with PICKit by the below way.



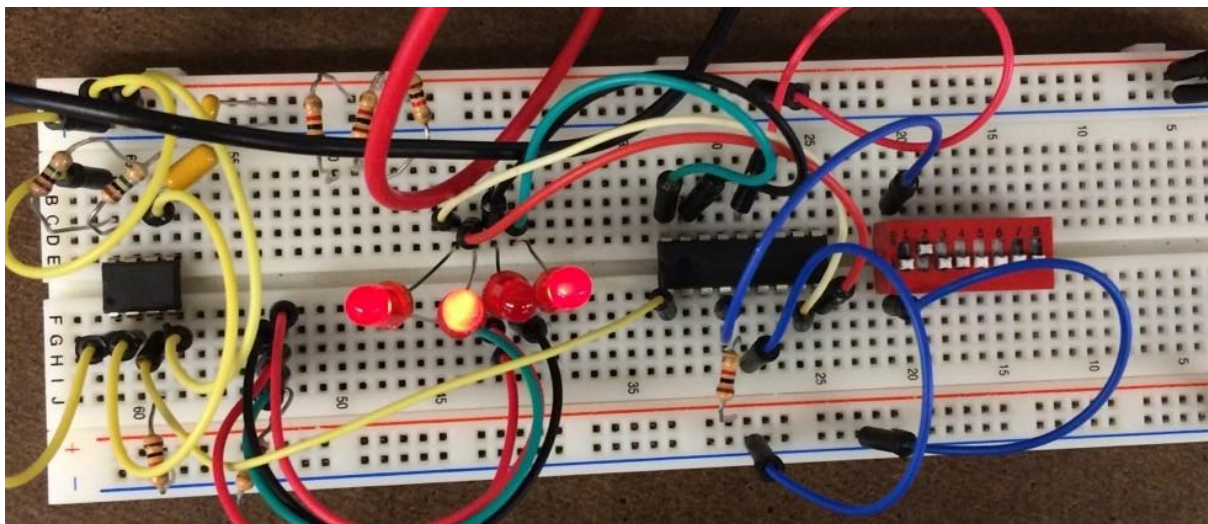
## Experiment 2

In this experiment, we built a circuit to test the functionality of the PICmicro programmed in the previous experiment. At first, we built the clock circuit and examined this circuit by using a diode. After confirming the clock circuit was working, we connected this circuit with the PIC18F1220 chip. Also, we put four diodes for output and put switch for reset the output.



After this experiment, we could know the result by four diodes. Each diode was turned off and on like the below table. Also, the diodes were turned off and on order was same with the table order.

The order	Diode 1	Diode 2	Diode 3	Diode 4	Turn on LED
1					-
2					1
3					2
4					1/2
5					3
6					3/1
7					3/2
8					3/2/1
9					4
10					4/1
11					4/2
12					4/2/1
13					4/3
14					4/3/1/
15					4/3/2
16					4/3/2/1



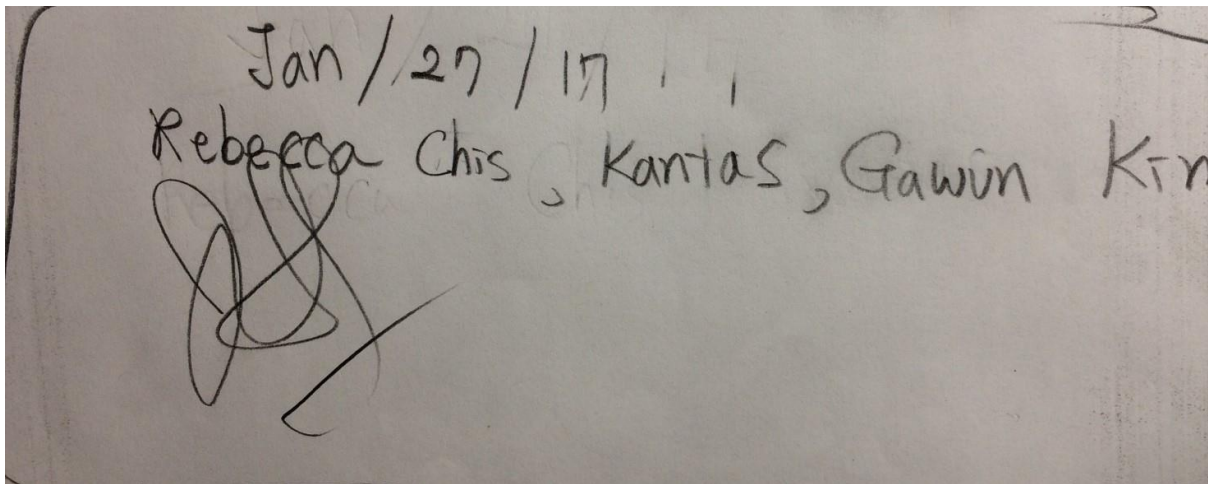
Above picture is our circuit

### **Learn from these experiments.**

1. From this experiment, we could know what MPLAB-X is and how to use it.
2. After building our code, we could know how to insert the code into the chip.

### **Conclusion (New experiment)**

In this lab, we learned about MPLAB-X; also, by using that, we learn how to insert the codes into the chip. At first, we had a big trouble about this program so that we spent a lot of time to figure it out. I think, because of this trial, it was a chance to understand it deeply. It was a new experiment to learn about the new program and I am expecting the other labs.



Jan / 27 / 17  
Rebecca Chris, Kantas, Gawin Kim

The image shows a piece of paper with handwritten text in black ink. The date 'Jan / 27 / 17' is written at the top. Below it, the names 'Rebecca Chris, Kantas, Gawin Kim' are written. There is a large, stylized signature or scribble over the names, and a checkmark is visible at the bottom left.