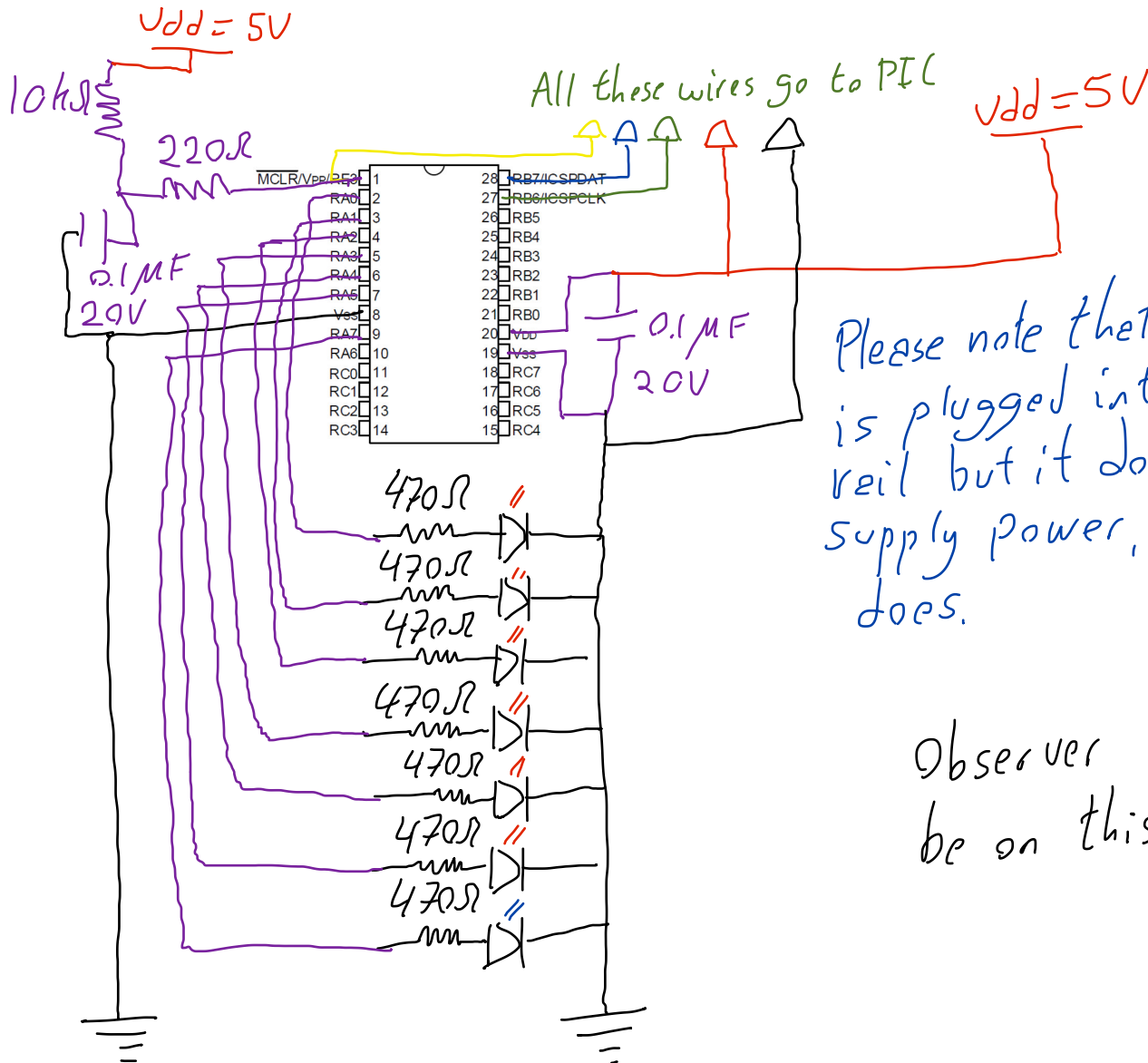


# PIC Activity 3 Circuit Schematic



# PIC Activity 3

## Program Design Chart.

First Initialize TRISA ANSELA & LATA

Probably  $\begin{cases} \text{TRISA} = 0x00; \\ \text{ANSELA} = 0x00; \\ \text{LATA} = 0x80; \end{cases}$  as for PIC activity 2. Nothing has changed for these two.

Need to feed LATA 1000000 binary value to make only pin

RA7 output logic 1 (5V) (5V)

Now consider main program steps:

① Create counters for loops.

② Make a primary "while" loop where LATA can be incremented upward from binary

10000000  $\rightarrow$  10111111

so that the pins output logical 1's and 0's in a binary counting pattern

③ Make a second "while" loop inside the primary "while" loop to turn off some time between adding to LATA

④ After LATA reaches a binary value of 10111111 exit primary "while" loop, set LATA back to 10000000 using bitwise operation, and let program run out.

## Basic Idea

void UserAppRun(void)

{

create two counters, one for each loop.

create an outer "while" loop that runs for  $11111_2$  cycles.

{

LATA++;  $\leadsto$  just need to increment upward.

create an inner "while" loop that burns off about 250ms

{

U32Counter++;

}

will need to reset inner loop counter here.

}

use some method to reset LATA.

Let program run out.

"main" will automatically run it again.