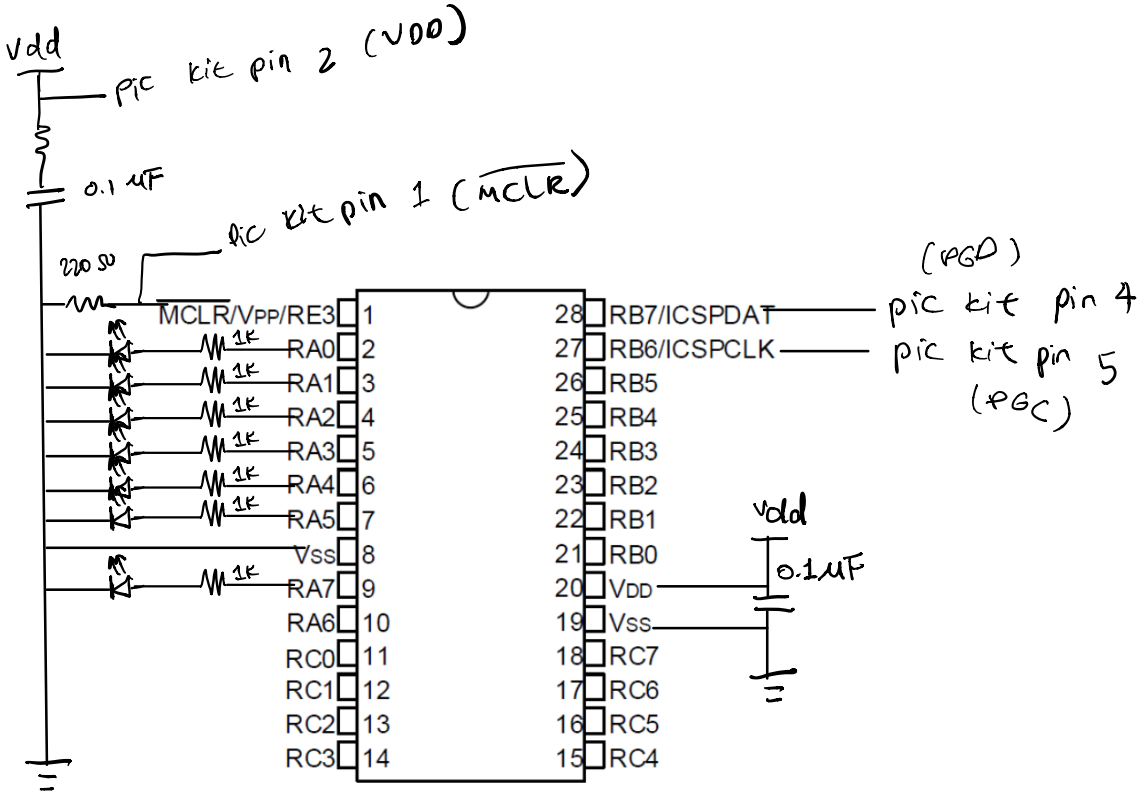
Circuit Diagram



(power supply circuit is not shown)

As an example, let's write the pseudo code for PIC Activity 2:

```
Initialization (this runs only once when the code starts)
   -  Configure TRISA, ANSELA, and LATA (or PORTA) registers

while(1)
{
   -  Toggle RA0
   -  Wait 250ms
}
```

Draw or write out a program design for this activity. The counter should start at 0 and count to the maximum value, then rollover back to 0. The delay between counts should be about 250ms.

This design is the second deliverable for this activity.

Pseudocode

Initialization

- configure TRISA, ANSELA, and LATA registers
- Digital → ANSELA = 0x00
- need to turn on RA7 → LATA = 1000 0000 = 0x80
- need to set pins 0 to 8 as outputs → TRISA = 0x00

```
while (1)
{
    - toggle each LED such that it represents
      a binary counter
    - wait 250 ms
}
```