

dd

```
        ;_CONFIG 0x3D98
        ;*****Setup the Constants*****
STATUS   equ     0x03h ;Address of the STATUS register
TRISA    equ     0x85h ;Address of the tristate register for port A
PORTA    equ     0x05h ;Address of Port A
COUNT1  equ     08h  ;First counter for our delay loops
COUNT2  equ     09h  ;Second counter for our delay loops

;****Set up the port****
bsf      STATUS,5      ;Switch to Bank 1
movlw    00h           ;Set the Port A pins
movwf    TRISA         ;to output
bcf      STATUS,5      ;Switch back to Bank 0

;****Turn the LED on****
Start    movlw    02h           ;Turn the LED on by first putting
        movwf    PORTA        ;it into the w register and then
        ;on the port

;****Start of the delay loop 1****
Loop1    decfsz   COUNT1,1      ;Subtract 1 from 255
        goto     Loop1         ;If COUNT is zero, carry on.
        decfsz   COUNT2,1      ;Subtract 1 from 255
        goto     Loop1         ;Go back to the start of our loop.
        ;This delay counts down from
        ;255 to zero, 255 times

;****Delay finished, now turn the LED off****
        movlw    00h           ;Turn the LED off by first putting
        movwf    PORTA        ;it into the w register and then on
        ;the port

;****Add another delay****
Loop2    decfsz   COUNT1,1      ;This second loop keeps the
        goto     Loop2         ;LED turned off long enough for
        decfsz   COUNT2,1      ;us to see it turned off
        goto     Loop2
```

dd

****Now go back to the start of the program

```
goto      Start      ;go back to Start and turn LED
                        ;on again
```

****End of the program****

```
end                        ;Needed by some compilers
                        ;and also just in case we miss
                        ;the goto instruction.
```