

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.
```