

```
'PIC18F2220 with 8 MHz internal
@      __CONFIG      _CONFIG1H, _INTIO2_OSC_1H
@      __CONFIG      _CONFIG2H, _WDT_ON_2H & _WDTPS_128_2H
@      __CONFIG      _CONFIG3H, _MCLRRE_OFF_3H
@      __CONFIG      _CONFIG4L, _LVP_OFF_4L

OSCCON = $70
DEFINE OSC 8

PORTA = %00000000 ' output logic at power-up
PORTB = %00000000 ' output logic at power-up
PORTC = %00000000 ' output logic at power-up

' Alias pins
L1      VAR LATB.7 :TRISB.7 = 0
L2      VAR LATB.6 :TRISB.6 = 0
L3      VAR LATB.5 :TRISB.5 = 0
L4      VAR LATB.4 :TRISB.4 = 0

' Set up I2C and servo control
DEFINE I2C_SLOW 1 'access a standard speed device at above
8MHz
DEFINE I2C_HOLD 1 'holding the clock line
scl      VAR PortC.3 'Clock Pin
sda      VAR PortC.4 'Data Pin

'Define RAM
i        VAR BYTE

' Begin
HIGH L1:PAUSE 100:HIGH L2:PAUSE 100:HIGH L3:PAUSE 100:HIGH L4
PAUSE 200
LOW L1:PAUSE 100:LOW L2:PAUSE 100:LOW L3:PAUSE 100:LOW L4

' Main Loop
mainloop:

    TOGGLE L1
    i = i + 5
    PAUSE 100
    I2CWRITE sda, scl, $C2, 81, [i]

GOTO mainloop
```