//Test\_Program: Interfacing LEDs to each port one by one

//Includes

#include <p18f4520.h> //Include Controller specific .h

//Configuration bit settings

#pragma config OSC = HS //Oscillator Selection

#pragma config WDT = OFF //Disable Watchdog timer

#pragma config LVP = OFF //Disable Low Voltage Programming

#pragma config PBADEN = OFF //Disable PORTB Analog inputs

//Function Prototypes

void msdelay (unsigned int time);//Function for delay

//Start of Program Code

void main() //Main Program

{

INTCON2bits.RBPU=0; //To Activate the internal pull on PORTB

ADCON1 = 0x0F; //To disable the all analog inputs

TRISA = 0x00; //To configure PORTA as output

TRISB = 0x00; //To configure PORTB as output

TRISC = 0x00; //To configure PORTC as output

TRISD = 0x00; //To configure PORTD as output

TRISE = 0x00; //To configure PORTE as output

while (1) //While loop for repeated operation

{

PORTA = 0xAA;

PORTB = 0xAA;

PORTC = 0xAA;

PORTD = 0xAA;

PORTE = 0xAA;

msdelay(200);

PORTA = 0x55;

PORTB = 0x55;

PORTC = 0x55;

PORTD = 0x55;

PORTE = 0x55;

msdelay(200);

}

} //End of the Program

//Function Definitions

void msdelay (unsigned int time)//Function for delay

{

unsigned int i, j;

for (i = 0; i < time; i++)

for (j = 0; j < 710; j++); //Calibrated for a 1 ms delay in MPLAB

}