//DK LED DON SANG DAN

#include<16f877a.h>

#fuses hs

#use delay(clock=4M)

#byte portb=0x06

void main()

{

set\_tris\_b(0);

portb=0b0000;

delay\_ms(1000);

portb=0b0001;

delay\_ms(1000);

portb=0b0011;

delay\_ms(1000);

portb=0b0111;

delay\_ms(1000);

portb=0b1111;

}

//LAP TRINH CHO VI DIEU KHIEN PIC

//DIEU KHIEN 1 LED 7 DOAN HIEN THI TU O DEN 9

#include<16f877a.h>

#fuses hs

#use delay(clock=4M)

#byte portb=0x06

int8 maled7[10]={0xc0,0xf9,0xa4,0xb0,

0x99,0x92,0x82,0xf8,0x80,0x90};

void main()

{

set\_tris\_b(0);//Thuc hien 1 lan

while(1)

{

portb = maled7[0];

delay\_ms(100);

portb= maled7[1];

delay\_ms(100);

……

portb= maled7[9];

delay\_ms(100);

}

}

//MO PHONG CO 4 CON LED 7 DOAN CHI QUAN TAM 2 CON CUOI CUNG

//VI TRI LED CHUC VA DON VI CO THE DOI CHO NHAU

//DK 2 SEG HIEN THI 00 DEN 99

#include <16f877a.h>

#fuses hs

#use delay(clock=4000000)

#byte portd=0x08

#bit ra0=0x05.0

#bit ra1=0x05.1

int8 maled7[10]={0xc0,0xf9,0xa4,0xb0,0x99,0x92,0x82,0xf8,0x80,0x90};

int dem,chuc,donvi,i;

void main()

{

set\_tris\_a(0x00);

set\_tris\_D(0x00);

 For (dem=00;dem<99;dem++)

{

chuc=dem/10;

donvi=dem%10;

For (i=1;i<=100;i++)

{

PORTD=0XFF; //DANH CHO MO PHONG

RA0=1;

RA1=0;

portd=maled7[chuc];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

RA0=0;

RA1=1;

portd=maled7[donvi];

delay\_ms(5);

}

}

}

//MO PHONG CO 4 CON LED 7 DOAN CHI QUAN TAM 2 CON CUOI CUNG

//VI TRI LED CHUC VA DON VI CO THE DOI CHO NHAU

//DK 3 LED 7 DOAN 0 DEN 256

#include <16f877a.h>

#fuses hs

#use delay(clock=4000000)

#byte portd=0x08

#bit ra1=0x05.1

#bit ra2=0x05.2

#bit ra3=0x05.3

int8 maled7[10]={0xc0,0xf9,0xa4,0xb0,0x99,0x92,0x82,0xf8,0x80,0x90};

int tram=0,chuc=0,donvi=0,i=0;

int16 dem=0;

void main()

{

set\_tris\_a(0);

set\_tris\_d(0);

for(dem=0;dem<=256;dem++)

{

tram=dem/100;

chuc=dem/10%10;

donvi=dem%10;

for(i=1;i<=34;i++)

{

PORTD=0XFF; //DANH CHO MO PHONG

ra1=0;ra2=1;ra3=1;

portd=maled7[tram];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

ra1=1;ra2=0;ra3=1;

portd=maled7[chuc];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

ra1=1;ra2=1;ra3=0;

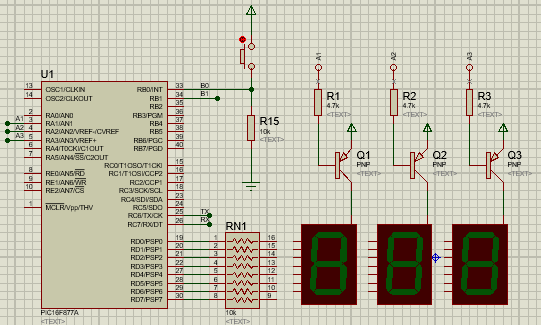
portd=maled7[donvi];

delay\_ms(5);

}

}

}

//DEM SO LAN NHAN NUT HIEN THI LEN 7SEG

#include <16f877a.h>

#fuses hs

#use delay(clock=4000000)

#byte portd=0x08

#bit ra1=0x05.1

#bit ra2=0x05.2

#bit ra3=0x05.3

#bit rB0=0x06.0

int8 maled7[10]={0xc0,0xf9,0xa4,0xb0,0x99,0x92,0x82,0xf8,0x80,0x90};

int tram=0,chuc=0,donvi=0,i=0;

int16 solan=0;

void main()

{

set\_tris\_a(0);

set\_tris\_b(1);// NUT NHAN GAN CHAN RB0

set\_tris\_d(0);

while(1)

{

if(rB0==1)

{

while(rb0==1)

{

//CHONG NHAY LED 7 DOAN

PORTD=0XFF; //DANH CHO MO PHONG

ra1=0;ra2=1;ra3=1;

portd=maled7[tram];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

ra1=1;ra2=0;ra3=1;

portd=maled7[chuc];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

ra1=1;ra2=1;ra3=0;

portd=maled7[donvi];

delay\_ms(5);

}

solan++;

}

tram=solan/100;

chuc=solan/10%10;

donvi=solan%10;

PORTD=0XFF; //DANH CHO MO PHONG

ra1=0;ra2=1;ra3=1;

portd=maled7[tram];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

ra1=1;ra2=0;ra3=1;

portd=maled7[chuc];

delay\_ms(5);

PORTD=0XFF; //DANH CHO MO PHONG

ra1=1;ra2=1;ra3=0;

portd=maled7[donvi];

delay\_ms(5);

}

}

//DPC GIA TRI ADC

//HIEN THI TREN LED DON

#include <16f877a.h>

#device adc=8

#fuses hs

#use delay(clock=4000000)

#byte portc=0x07//GAN 8 LED DON

int value;//LUU GIA TRI ADC

void main( )

{

set\_tris\_a(1);

set\_tris\_c(0);

setup\_ADC(ADC\_clock\_internal);

setup\_ADC\_ports(AN0);

set\_ADC\_channel(0);

delay\_ms(10);

while(1)

{ value=read\_adc();

portc=value;

}

}

//HIEN THI TREN LCD

//HIEN THI HO TEN & MSSV

#include<16f877a.h>

#fuses hs

#use delay (clock = 4M)

#define LCD\_ENABLE\_PIN PIN\_A3

#define LCD\_RS\_PIN PIN\_A1

#define LCD\_RW\_PIN PIN\_A2

#define LCD\_DATA4 PIN\_D4

#define LCD\_DATA5 PIN\_D5

#define LCD\_DATA6 PIN\_D6

#define LCD\_DATA7 PIN\_D7

#include<lcd.c>

void main()

{ set\_tris\_a(0b0000000);

set\_tris\_b(0b00000000);

lcd\_init();

lcd\_gotoxy(1,1);

lcd\_putc("VO THANH NHAN");

lcd\_gotoxy(1,2);

lcd\_putc("0303191498");

}

DOC GIA TRI ADC

HIEN THI TREN LED LCD



MACH PHU

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BẢNG MÃ LED 7 ĐOẠN CHO LED A CHUNG | | | | | | | | | |
|  |
| Số hiển thị | Hex | RB7 | RB6 | RB5 | RB4 | RB3 | RB2 | RB1 | RB0 |  |
| 0: SÁNG – 1: TẮT |  | DP | G | F | E | D | C | B | A |  |
| 0 | 0xC0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 1 | 0xF9 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |  |
| 2 | 0xA4 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |  |
| 3 | 0xB0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |  |
| 4 | 0x99 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |  |
| 5 | 0x92 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |  |
| 6 | 0x82 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  |
| 7 | 0xF8 | 1 |  | 1 | 1 | 1 | 0 | 0 | 0 |  |
| 8 | 0x80 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 9 | 0x90 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |