#define KEY\_ROWS 4 // 按鍵模組的列數

#define KEY\_COLS 4 // 按鍵模組的行數

int flag = 1;

char keymap[KEY\_ROWS][KEY\_COLS] = {

{'1', '2', 'A', '3'},

{'4', '5', 'B', '6'},

{'7', '8', 'C', '9'},

{'\*', '0', 'D', '#'}

};

byte colPins[KEY\_COLS] = {5, 4, 3, 2};

byte rowPins[KEY\_ROWS] = {11, 10, 9, 8};

byte scan ,i ,j;

char res;

void setup() {

// put your setup code here, to run once:

pinMode(8,INPUT);

pinMode(9,INPUT);

pinMode(10,INPUT);

pinMode(11,INPUT);

digitalWrite(8,HIGH);

digitalWrite(9,HIGH);

digitalWrite(10,HIGH);

digitalWrite(11,HIGH);

pinMode(2,OUTPUT);

pinMode(3,OUTPUT);

pinMode(4,OUTPUT);

pinMode(5,OUTPUT);

digitalWrite(2,LOW);

digitalWrite(3,LOW);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

PCICR |= 0b00000001;

PCMSK0 |= 0b00001111;

//PCMSK2 |= 0b00111100;

Serial.begin(9600);

}

void loop() {

// put your main code here, to run repeatedly:

if ( flag == 1 ) {

Serial.println(res);

flag = 0;

digitalWrite(2,LOW);

digitalWrite(3,LOW);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(8,HIGH);

digitalWrite(9,HIGH);

digitalWrite(10,HIGH);

digitalWrite(11,HIGH);

}

}

ISR(PCINT0\_vect)

{

my\_ISR();

}

void my\_ISR()

{

flag = 1;

for( i=0;i<=3;i++){

for( j=0;j<=3;j++){

digitalWrite(colPins[j],LOW);

scan = digitalRead(rowPins[i]);

if(scan ==LOW)

{

res= keymap[i][j];

digitalWrite(colPins[j],HIGH);

break;

}

digitalWrite(colPins[j],HIGH);

}

}

}