CODE

#define F\_CPU 8000000UL

#include <avr/io.h>

#include <util/delay.h>

#define R1 PB0

#define Y1 PB1

#define G1 PB2

#define R2 PB3

#define Y2 PB4

#define G2 PB5

#define R3 PD5

#define Y3 PD4

#define G3 PD3

#define R4 PD2

#define Y4 PD1

#define G4 PD0

int main(void)

{

DDRB = 0xff;

DDRD = 0xff;

DDRC = 0x00;

PORTB = 0x00;

PORTD = 0x00;

while(1)

{

if((PINC&0x01) == 0x01)

{

PORTB |= (1<<G1);

PORTB |= (1<<Y2);

PORTD |= (1<<R3);

PORTD |= (1<<R4);

}

else if((PINC&0x02) == 0x02)

{

PORTB |= (1<<R1);

PORTB |= (1<<G2);

PORTD |= (1<<Y3);

PORTD |= (1<<R4);

}

else if((PINC&0x04) == 0x04)

{

PORTB |= (1<<R1);

PORTB |= (1<<R2);

PORTD |= (1<<G3);

PORTD |= (1<<Y4);

}

else if((PINC&0x08) == 0x08)

{

PORTB |= (1<<Y1);

PORTB |= (1<<R2);

PORTD |= (1<<R3);

PORTD |= (1<<G4);

}

else

{

PORTB = 0x00;

PORTD = 0x00;

PORTB |= (1<<G1);

PORTB |= (1<<Y2);

PORTD |= (1<<R3);

PORTD |= (1<<R4);

\_delay\_ms(7000);

PORTB = 0x00;

PORTD = 0x00;

PORTB |= (1<<R1);

PORTB |= (1<<G2);

PORTD |= (1<<Y3);

PORTD |= (1<<R4);

\_delay\_ms(7000);

PORTB = 0x00;

PORTD = 0x00;

PORTB |= (1<<R1);

PORTB |= (1<<R2);

PORTD |= (1<<G3);

PORTD |= (1<<Y4);

\_delay\_ms(7000);

PORTB = 0x00;

PORTD = 0x00;

PORTB |= (1<<Y1);

PORTB |= (1<<R2);

PORTD |= (1<<R3);

PORTD |= (1<<G4);

\_delay\_ms(7000);

PORTB = 0x00;

PORTD = 0x00;

}

}

}