بسمه تعالی

گزارش کار آزمایش 7 گروه C

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ترم بهار 97-98

عنوان آزمایش:تنظیم کیبورد

هدف آزمایش:

* کار با وقفه خارجی
* راه انداری کیبورد ماتریسی
* نمایش کاراکترها توسط 7segment

شرح آزمایش: از آنجا که در این آزمایش از پورت C استفاده کردیم تیک مربوط به فیوز بیت JTAGEN را (حالت پیش فرض)بر می داریم.

الف) تحویل شد.

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| --- |
| #include <avr\io.h>  #include <avr\interrupt.h> |
| #include <util\delay.h> |
| #include <stdio.h> |
| #include <string.h> |
| #include <stdlib.h> |
| void keyfind(){ |
| PORTC = 0b11101111; |
| if ((PINC & 0b00000001) == 0b00000000){ |
| PORTB = ~(0b00111111); |
| } |
| if ((PINC & 0b00000010) == 0b00000000){ |
| PORTB = ~(0b01011011); |
| } |
| if ((PINC & 0b00000100) == 0b00000000){ |
| PORTB = ~(0b01001111); |
| } |
| PORTC = 0b11011111; |
| if ((PINC & 0b00000001) == 0b00000000){ |  |
| PORTB = ~(0b00000110); |
| } |
| if ((PINC & 0b00000010) == 0b00000000){ |
| PORTB = ~(0b01101101); |
| } |
| if ((PINC & 0b00000100) == 0b00000000){ |
| PORTB = ~(0b01111101); |
| } |
|  |
| PORTC = 0b10111111; |
| if ((PINC & 0b00000001) == 0b00000000){ |
| PORTB = ~(0b01100110); |
| } |
| if ((PINC & 0b00000010 )== 0b00000000){ |
| PORTB = ~(0b01111111); |
| } |
| if ((PINC & 0b00000100) == 0b00000000){ |
| PORTB = ~(0b01101111); |
| } |
| PORTC = 0b01111111; |
| if ((PINC & 0b00000001) == 0b00000000){ |
| PORTB = ~(0b00000111); |
| } |
| if ((PINC & 0b00000010) == 0b00000000){ |
| PORTB = ~(0b00111111); |
| } |
| if ((PINC & 0b00000100) == 0b00000000){ |
| PORTB = ~(0b00111111); |
| } |
| PORTC = 0b00001111 ; |
| } |
| ISR(INT0\_vect){ |
| PORTD |= (1<<PA0); |
| keyfind(); |
| \_delay\_ms(500); |
| PORTD &= ~(1<<PA0); |
| } |
| int main() |
| { |
| sei(); |
| DDRA = 0b00000001; |
| DDRD = 0b00000000; |
| PORTD |= (1<<PD2); |
| GICR |= (1<<INT0); |
| MCUCR |= (1<<ISC01); |
| DDRB = 0b11111111; |
| DDRC = 0b11110000; |
| PORTC = 0b00001111; |
| while(1){} |
| return 0; |  |
| } |  |
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