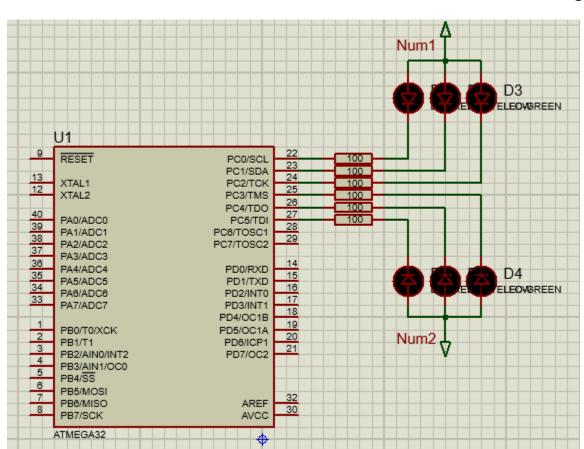
## متین گلپایگانی

## 9,74.74

## آزمایشگاه ریزپردازنده

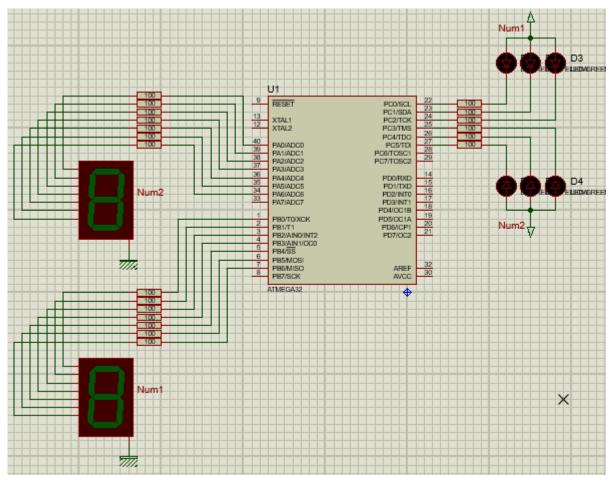
## آزمایش۲

سوال ۱)



```
PORTC = 0xff;
39
40
     while (1)
41
42 🖨
            {
            PORTC.0 = 0;
43
            PORTC.3 = 0;
44
45
            delay ms(8000);
            PORTC.3 = 1;
46
            PORTC.4 = 0;
47
            delay ms(2000);
48
            PORTC.0 = 1;
49
            PORTC.4 = 1;
50
51
            PORTC.5 = 0;
52
           PORTC.2 = 0;
53
            delay ms(8000);
54
            PORTC.2 = 1;
55
            PORTC.1 = 0;
56
57
            delay ms(2000);
            PORTC.5 = 1;
58
            PORTC.1 = 1;
59
60
            }
61
```

سوال ۲)



```
23 poid main (void)
24 🗦 {
25
26
     char seg[] = {0x3f,0x6,0x5b,0x4f,0x66,0x6d,0x7d,0x7,0x7f,0x6f} ;
27
     int i;
28
29
30
     // Port A initialization
31
     // Function: Bit7=Out Bit6=Out Bit5=Out Bit4=Out Bit3=Out Bit2=Out Bit1=Out Bit0=Out
    DDRA=(1<<DDA7) | (1<<DDA6) | (1<<DDA5) | (1<<DDA4) | (1<<DDA3) | (1<<DDA2) | (1<<DDA1) | (1<<DDA0);
32
33
     // State: Bit7=0 Bit6=0 Bit5=0 Bit4=0 Bit3=0 Bit2=0 Bit1=0 Bit0=0
34
     PORTA=(0<<PORTA7) | (0<<PORTA6) | (0<<PORTA5) | (0<<PORTA4) | (0<<PORTA3) | (0<<PORTA2) | (0<<PORTA1) | (0<<PORTA1) |
35
36
     // Port B initialization
37
     // Function: Bit7=Out Bit6=Out Bit5=Out Bit4=Out Bit3=Out Bit2=Out Bit1=Out Bit0=Out
38
     DDRB=(1<<DDB7) | (1<<DDB6) | (1<<DDB5) | (1<<DDB4) | (1<<DDB3) | (1<<DDB2) | (1<<DDB1) | (1<<DDB0);
39
     // State: Bit7=0 Bit6=0 Bit5=0 Bit4=0 Bit3=0 Bit2=0 Bit1=0 Bit0=0
     PORTB=(0<<PORTB7) | (0<<PORTB6) | (0<<PORTB5) | (0<<PORTB4) | (0<<PORTB3) | (0<<PORTB2) | (0<<PORTB1) | (0<<PORTB1) |
40
41
42
     // Port C initialization
43
     // Function: Bit7=Out Bit6=Out Bit5=Out Bit4=Out Bit3=Out Bit2=Out Bit1=Out Bit0=Out
44
    DDRC=(1<<DDC7) | (1<<DDC6) | (1<<DDC5) | (1<<DDC4) | (1<<DDC3) | (1<<DDC2) | (1<<DDC1) | (1<<DDC0);
     // Chaha. Ditano Ditano Ditano Ditano Ditano Ditano Ditano
```

```
while (1)
50
51
   白
            PORTC = 0xff;
52
53
            PORTC.0 = 0;
54
            PORTC.3 = 0;
55
            for(i=7;i>=0;i--){
56
   57
              PORTA = seg[i];
              PORTB = seg[i+2];
58
              delay ms(1000);
59
60
61
            PORTC.3 = 1;
62
63
            PORTC.4 = 0;
            for(i=1;i>=0;i--){
64
   PORTA = seg[i];
65
              PORTB = seg[i];
66
              delay ms(1000);
67
            }
68
  69
             PORTC.4 = 1;
  70
  71
              PORTC.0 = 1;
  72
              PORTC.5 = 0;
             PORTC.2 = 0;
  73
             for(i=7;i>=0;i--){
  74
  75
               PORTA = seg[i+2];
  76
               PORTB = seg[i];
                delay ms(1000);
  77
  78
  79
             PORTC.2 = 1;
  80
              PORTC.1 = 0;
  81
  82
              for(i=1;i>=0;i--){
     ▭
  83
               PORTA = seg[i];
  84
                PORTB = seg[i];
               delay ms(1000);
  85
  86
  87
              }
  88
  89
  90
```