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LED ASSIGNMENT
1-Write an ecp to shift the led from left to right one by one @500ms.
ANS:
#include<reg51.h>
void delay_1ms(int);
#define LEDS P1
void main()
  unsigned char pos=8;
  while(1)
  while(pos>=0)
       LEDS=(1 < --pos)^0x0f;
    delay_1ms(500);
  if(pos==0)
       pos=8;
    }
}
void delay_1ms(int x)
  unsigned char i;
  for(;x>0;x--)
    for(i=250;i>0;i--);
    for(i=347;i>0;i--);
  }
}
2-Write an ecp to display binary equalent of integer 0 to 255 on 8 leds.
ANS:
#include<reg51.h>
void delay_1ms(int);
#define LEDS P1
void main()
{
  unsigned char pos=0;
  while(pos<256)
    {
```

```
LEDS=(pos++)^0x0f;
       delay_1ms(1000);
    }
  While(1);
  }
void delay_1ms(int x)
  unsigned char i;
  for(;x>0;x--)
    for(i=250;i>0;i--);
    for(i=347;i>0;i--);
  }
}
SWITCH ASSIGNMENT
1-Write an ALP to control active low LED using active low switch.
ANS:
AL LED BIT P1.0
AL_SW BIT P2.0
CSEG AT 0
MAIN:
JNB AL_SW,LABEL
SETB AL LED
SJMP LAST
LABEL:
CLR AL_LED
LAST:
JMP MAIN
END
2-Write an ECP to control 3 LEDs using 3 switches(NOTE: use 3 AL_LEDS and 3 AL_switches
& when switch1 is activated ,only led1 is on and rest of them off)
ANS:
#include<reg51.h>
sbit AL LED1=P1^0;
sbit AL_LED2=P1^1;
sbit AL_LED3=P1^2;
sbit AL SW1=P2<sup>0</sup>;
sbit AL_SW2=P2^1;
sbit AL SW3=P2<sup>2</sup>;
void main()
```

```
{
  while(1)
  {
     AL_LED1=1;
     AL_LED2=1;
     AL_LED3=1;
     if(AL_SW1==0)
        AL_LED1=0;
     if(AL_SW2==0)
        AL_LED2=0;
     if(AL_SW3==0)
        AL_LED3=0;
    }
}
```