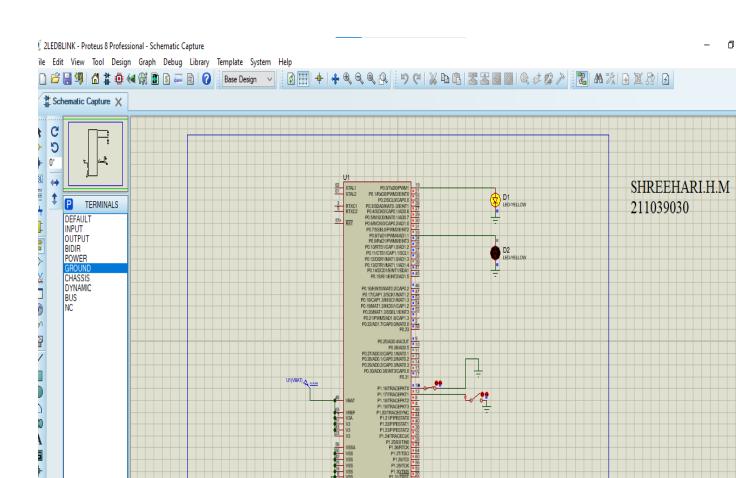
Program 1-

```
#include<lpc214x.h>
void delay(unsigned int z);
void pll();
int main(void)
IO0DIR=0xffffffff;
IO1DIR = 0x0;
pll(); //Fosc=12Mhz,CCLK=60Mhz,PCLK=60MHz
while(1) {
if((IO1PIN & (1<<16)) ==0)
IO0SET=0x000000ff;
delay(1000); //1sec delay
IO0CLR=0x000000ff;
delay(1000);
if((IO1PIN & (1<<17)) ==0)
IO0SET=0x0000ff00;
delay(500); //500msec delay
IO0CLR=0x0000ff00;
delay(500);
void pll() //Fosc=12Mhz,CCLK=60Mhz,PCLK=60MHz
PLL0CON=0x01;
PLL0CFG=0x24;
PLL0FEED=0xaa;
PLL0FEED=0x55;
while(!(PLL0STAT&(1<<10)));
PLL0CON=0x03;
PLL0FEED=0xaa;
PLL0FEED=0x55;
VPBDIV=0x01;
void delay(unsigned int z)
T0CTCR=0x0; //Select Timer Mode
TOTCR=0x00; //Timer off
T0PR=59999; //Prescaler value for 1ms
T0TCR=0x02; //Timer reset
T0TCR=0x01; //Timer ON
while(T0TC<z);
TOTCR=0x00; //Timer OFF
TOTC=0; //Clear the TC value. This is Optional.
}
```



program 2-implement a 00-99 counter(up counter) using two 7segment display.

```
#include<lpc214x.h>
void delay(unsigned int t);
int main()
{
unsigned int ch[]={0xC0,0xF9,0xA4,0xB0,0x99,0x92,0x82,0xF8,0x80,0x90};
unsigned int i,j;
int P3=0xc0;
int P2=0xc0;
while(1)
for(j=0;j<10;j++)
for(i=0;i<10;i++)
P3=ch[i];
delay(50);
}
if(j!=10)
P2=ch[j+1];
if(i==10\&\&j==10)
P3=0xc0;
P2=0xc0;
}
void delay(unsigned int t)
```

```
{
unsigned int i,j;
for(i=0;i<t;i++)
for(j=0;j<1275;j++);
}</pre>
```

OUTPUT:

