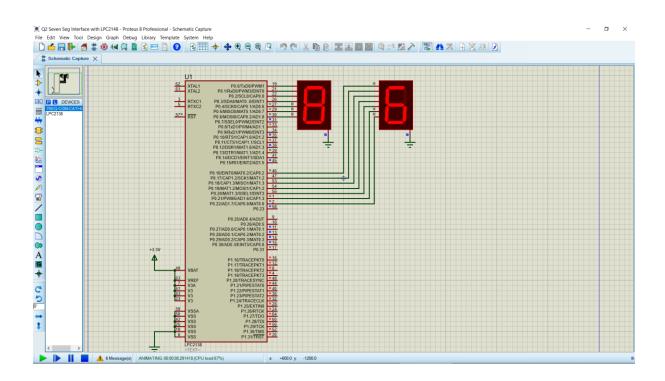
## **KARTHIK MN**

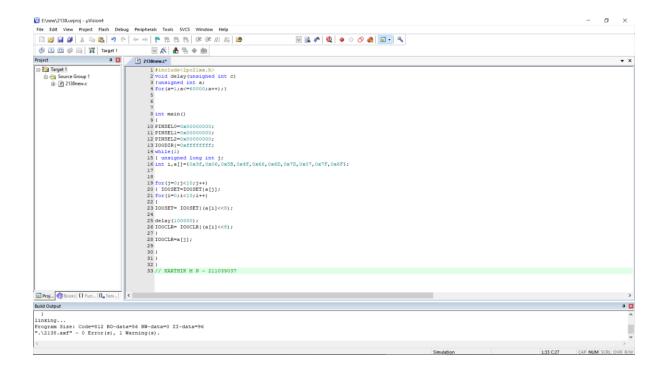
Reg no. 211039037

Q2) Implement using Proteus and Keil, for the following: (15 marks)Implement a 00-99 counter(up counter)using two 7 segment display.

```
#include<lpc21xx.h>
void delay(unsigned int c)
{unsigned int a;
for(a=1;a<=60000;a++);
int main()
PINSEL0=0x00000000;
PINSEL1=0x00000000;
PINSEL2=0x000000000;
IO0DIR|=0xffffffff;
while(1)
{ unsigned long int j;
int i,a[]=\{0x3f,0x06,0x5B,0x4F,0x66,0x6D,0x7D,0x07,0x7F,0x6F\};
for(j=0;j<10;j++)
{ IOOSET=IOOSET|a[i];
for(i=0;i<10;i++)
```

```
{
    IOOSET= IOOSET|(a[i]<<8);
    delay(100000);
    IOOCLR= IOOCLR|(a[i]<<8);
}
    IOOCLR=a[j];
}
// KARTHIK M N
```



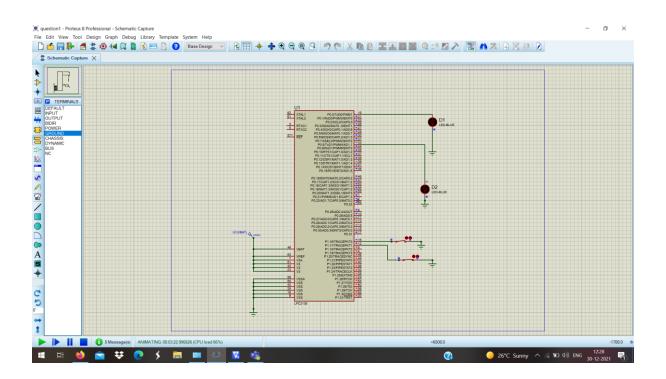


Q1) Implement using Proteus and Keil for the following:(15 marks)Connect two switches (SW1 and SW2)and two LED. On press of first switchSW1, the led1should on andoff with a delay of 1sec and other switch SW2, LED2 should be on and off at 500 ms.

```
#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)
{</pre>
```

```
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)
```

```
{
TOCTCR=0x0; //Select Timer Mode
TOTCR=0x00; //Timer off
TOPR=59999; //Prescaler value for 1ms
TOTCR=0x02; //Timer reset
TOTCR=0x01; //Timer ON
while(TOTC<z);
TOTCR=0x00; //Timer OFF
TOTC=0; //Clear the TC value. This is Optional.
}
// KARTHIK M N -211039037
```



https://github.com/Karthik-mn/MCA---LAB