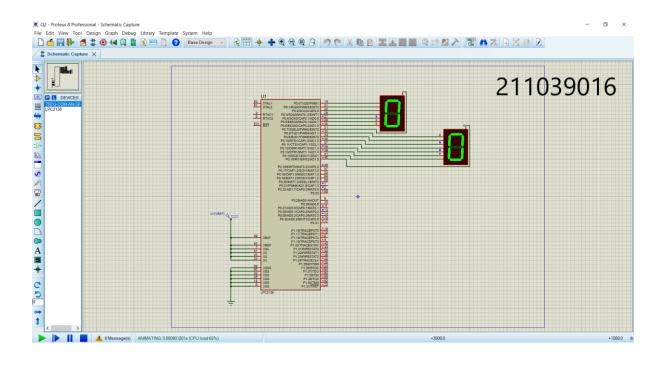
Q2. Counter using 7-Segment display

```
#include<lpc21xx.h>
void delay(int);
int main()
{
       PINSEL0=0x00000000;
       PINSEL1=0x00000000;
       IOODIR=0x0000FFFF;
while(1)
{
       int i, j;
       int a[]=\{0xC0,0xF9,0xA4,0xB0,0x99,0x92,0x82,0xF8,0x80,0x90\};
int b[]={0xC0,0xF9,0xA4,0xB0,0x99,0x92,0x82,0xF8,0x80,0x90};
    for(i=0;i<10;i++)
      {
      IOOSET=IOOSET|a[i];
      for(j=0;j<10;j++)
      {
        IO0SET= IO0SET | (b[j]<<8);
```



```
#include<lpc214x.h>
void delay(unsigned int z);
void pll();
int main(void)
{
  IOODIR=0xfffffff;
  IO1DIR = 0x0;
  pll();
  while(1) {
   if((IO1PIN & (1<<16)) ==0)
    {
    IO0SET=0x000000ff;
    delay(1000);
    IOOCLR=0x000000ff;
    delay(1000);
    }
    if((IO1PIN & (1<<17)) ==0)
    IO0SET=0x0000ff00;
    delay(500);
    IO0CLR=0x0000ff00;
    delay(500);
    }
  }
}
void pll()
```

```
PLLOCON=0x01;
  PLLOCFG=0x24;
  PLLOFEED=0xaa;
  PLLOFEED=0x55;
 while(!(PLLOSTAT&(1<<10)));</pre>
  PLLOCON=0x03;
  PLLOFEED=0xaa;
  PLLOFEED=0x55;
  VPBDIV=0x01;
}
void delay(unsigned int z)
{
 TOCTCR=0x0;
  T0TCR=0x00;
  TOPR=59999;
  T0TCR=0x02;
  TOTCR=0x01;
 while(T0TC<z);
  T0TCR=0x00;
 TOTC=0;
}
```