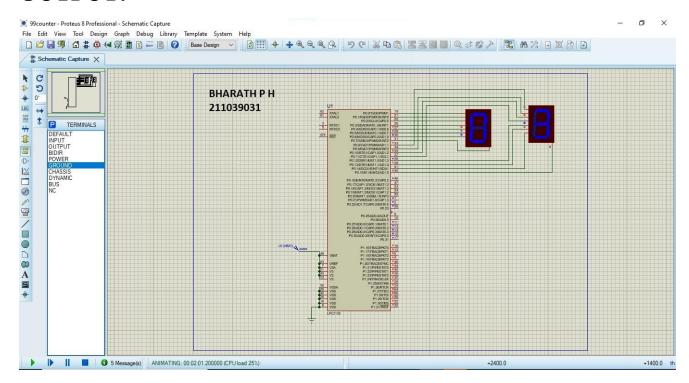
## MCA LAB INTERNALS

Name: Bharath P H

Reg number: 211039031

```
2.
#include<lpc21xx.h>
void delay(unsigned int c) // delay function
for(c=1;c<=60000;c++);
int main()
PINSEL0=0x00000000; //selecting port 0
IO0DIR|=0xffffffff;//selecting pins as output
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++)
IO0SET=IO0SET|a[j];
for(i=0;i<10;i++)
{
IOOSET = IOOSET | (a[i] << 8);
delay(600000);
IOOCLR = IOOCLR | (a[i] << 8);
}
IO0CLR=a[j];
}
}
```

## **OUTPUT:**



## 1.

```
#include<lpc214x.h>
void delay(unsigned int z);
void pll();
int main(void)
  IO0DIR=0xfffffff;
  IO1DIR = 0x0;
  pll();
  while(1) {
   if((IO1PIN & (1<<16)) ==0)
    {
    IO0SET=0x000000ff;
    delay(1000);
    IO0CLR=0x000000ff;
    delay(1000);
     }
    if((IO1PIN & (1<<17)) ==0)
```

```
{
    IO0SET=0x0000ff00;
    delay(500);
    IO0CLR=0x0000ff00;
    delay(500);
    }
}
void pll()
 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;
 T0TCR=0x00;
 T0PR=59999;
 T0TCR=0x02;
 T0TCR=0x01;
 while(T0TC<z);
 T0TCR=0x00;
 T0TC=0;
}
```

## **OUTPUT:**

