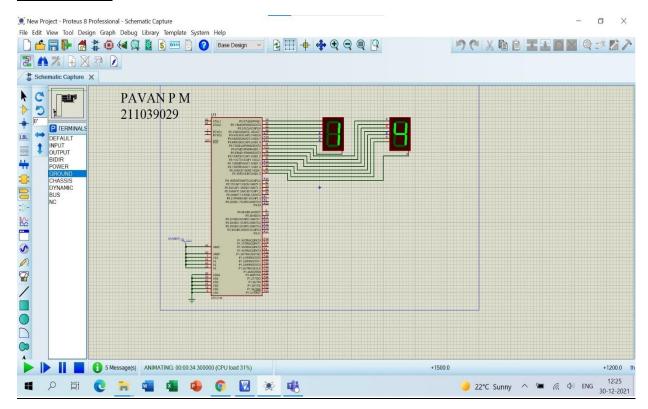
MCA LAB INTERNALS

Name: Pavan PM Roll No: 211039029 2. #include<lpc21xx.h> void delay(unsigned int c) {unsigned int a; for(a=1;a<=60000;a++);int main() { PINSEL0=0x00000000; PINSEL1=0x000000000; 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++) { $\underline{IOOSET} = \underline{IOOSET} | (a[i] << 8);$ delay(100000); <u>IOOCLR= IOOCLR|(a[i]<<8);</u> } IO0CLR=a[i]; }

}

}

OUTPUT:



<u>1.</u>

```
#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
T0TCR=0x00; //Timer off
T0PR=59999; //Prescaler value for 1ms
T0TCR=0x02; //Timer reset
T0TCR=0x01; //Timer ON
while(T0TC<z);
T0TCR=0x00; //Timer OFF
T0TC=0; //Clear the TC value. This is Optional.
}
```

OUTPUT:

