```c
//up COUNTER
//Tilak POOJARY
//NNM24EE127
//7/10/25
//EXP 5A
#include<MicroLABlet.h>
#define declare_output_port 0x00
#define enable 1
#define disable 0
sbit buzzer_control=P3^5;
sbit control1=P3^6;
sbit control2=P3^7;
char array_counter,length,fps,higher_nibble,lower_nibble;
void main(void)
{
  //hex codes//
  unsigned char
hexcode_digit[]={0x3F,0x06,0x5B,0x4F,0x66,0x6D,0x7D,0x07,0x7F,0x6F,0x77,0x7F,0x39,0x3F,0x79,0x71};
  P1=declare_output_port;          //initialized port 1 as output port
  control1=0;                 //set P3.6 as output port
  control2=0;                 //set P3.7 as output port
  buzzer_control=0;                //set port P3.5 as output port
  buzzer_control=1;                //ensuring buzzer is off
  while(1)
  {
    for(array_counter=0;array_counter<=10;array_counter++)
    {
      higher_nibble=array_counter/10;      //to get decimal higher nibble value
      lower_nibble=array_counter%10;       //to get decimal lower nibble value
      for(fps=0;fps<=50;fps++)
      {
        control1=enable;              //turn on the first 7 segment display
        control2=disable;             //turn off the second 7 segment display
        P1=hexcode_digit[higher_nibble];
        delay(10);
        control1=disable;             //turn off the second 7 segment display
        control2=enable;              //turn on the first 7 segment display
        P1=hexcode_digit[lower_nibble];
        delay(10);
      }
    }
  }
}

```