

SEVEN SEGMENT

Task program

PROGRAM:-

Common cathode:-

```
#include <xc.h> //include neccacary header file
#define _XTAL_FREQ 6000000 //intialize the clock speed

void main()
{
    unsigned char SEG[10]={0x3F,0x06,0x5B,0x4F,0x66,0x6D,0xFC,0x07,0xFF,0x67}; //to turn on the portc pins
    int i;
    TRISC=0x00; //set the trisc all as output pins
    PORTC=0x00; //clear the portc pins
    while(1)
    {
        for(i=0;i<=9;i++) //for loop
        {
            PORTC=SEG[i]; //send the data to SEg of i to portc
            __delay_ms(1000); //delay
        }
    }
}
```

Common anode:-

```
#include <xc.h> //include the header file
#define _XTAL_FREQ 6000000 //intialize the clock speed

void main()
{
    unsigned char SEG[10]={0xC0,0xF9,0xA4,0xB0,0x99,0x92,0x82,0xF8,0x80,0x90}; //to turn off the required pins
    int i; //declare the variable
    TRISC=0x00; //trisc intialize as output
    PORTC=0x00; //clear the output
    while(1) //while loop
    {
        for(i=0;i<=9;i++) //for loop
        {
            PORTC=SEG[i]; //sent the seg of i data will be sent to the portc
            __delay_ms(1000); //delay
        }
    }
}
```