

## Contents

```

/*****
*** Ahmed, Ashik ****
*** 12-20978-1 ****
****
*** CSE ****
*** 131 ****
*****/

#define HFS Delay_ms(500)
#define ONS Delay_ms(1000)

int num[12]= {0x40, 0x79, 0x24, 0x30, 0x19, 0x12, 0x02, 0x78, 0x00, 0x10, 0x3F,
0xFF};
void sendCommand(unsigned char command);
void sendData(unsigned char dat);
void sendString(char *str);
void name();
void dept();
void ss(int num);

void main()
{
    int i;

    DDRA = 0xFF;
    DDRC = 0xFF;
    DDRD = 0xFF;

    Delay_us(2000);
    sendCommand(0x38) ;
    sendCommand(0x0C);
    sendCommand(0x01);
    Delay_us(2000) ;

    while(1)
    {
        ss(1);
        name();
        ONS;

        ss(11);
        HFS;

        ss(2);
        HFS;

        sendCommand(0x01);
        HFS;

        ss(11);
        dept();
        HFS;

        ss(10);
        ONS;

        ss(11);
    }
}

```

```

HFS;

ss(2);
sendCommand(0x01);
HFS;

name();
HFS;

ss(11);
HFS;

ss(0);
ONS;

sendCommand(0x01);
ss(11);
HFS;

ss(9);
dept();
ONS;

ss(11);
HFS;

ss(7);
HFS;

sendCommand(0x01);
HFS;

ss(11);
name();
HFS;

ss(8);
ONS;

ss(11);
HFS;

ss(10);
sendCommand(0x01);
HFS;

dept();
HFS;

ss(11);
HFS;

ss(1);
ONS;

sendCommand(0x01);
ss(11);

```

```

        HFS;
    }
}

void sendCommand (unsigned char command)
{
    PORTD = command;
    PORTC = 0b00000000;
    PORTC = 0b01000000;
    Delay_us(1);
    PORTC = 0b00000000;
    Delay_us(100);
}

void sendData (unsigned char dat)
{
    PORTD = dat;
    PORTC = 0b00000001;
    PORTC = 0b01000001;
    Delay_us(1);
    PORTC = 0b00000001;
    Delay_us(100);
}

void sendString(char *str){
    int i;

    for(i=0;str[i]!='\0'; i++){
        sendData(str[i]);
    }
}

void ss(int nm){
    PORTA = num[nm];
}

void name(){
    sendString("    Ashik    Ahmed");
    sendCommand(0xC0);
    sendString("    12-20978-1");
}

void dept(){
    sendString("        CSE");
    sendCommand(0xC0);
    sendString("        131");
}

```