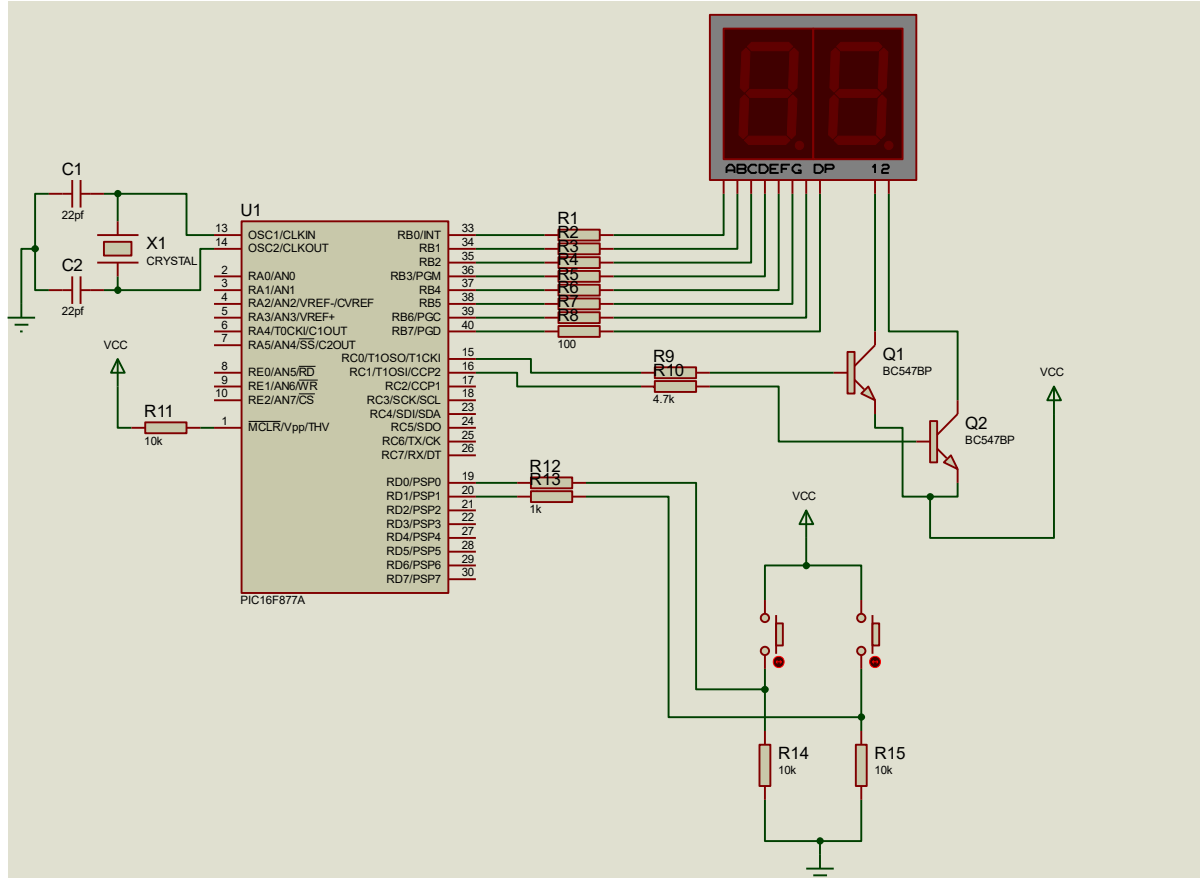


P-2: Write a program for PIC microcontroller to increase and decrease a number using push button and 2 digits seven segment display also store the number in EEPROM.

Circuit:



Code:

```
char arraycc[]={0x3F,0x06,0x5B,0x4F,0x66,0x6D,0x7D,0x07,0x7F,0x6F};
```

```
void main() {
    int bt_zero = 0;
    int bt_one = 0;

    TRISB = 0x00;
    TRISC = 0x00;
    TRISD = 0xFF;

    PORTB = 0x00;
    PORTC = 0x00;
    PORTD = 0xFF;
    bt_zero = eeprom_read(0x00);
    bt_one = eeprom_read(0x01);

    while(1) {
```

```

// for button zero
if(PORTD.F0 == 1) {
    Delay_ms(100);
    if(PORTD.F0 == 1) {
        bt_zero++;
        if(bt_zero == 10) {
            bt_zero = 0;
        }
    }
}

// for button one
if(PORTD.F1 == 1) {
    Delay_ms(100);
    if(PORTD.F1 == 1) {
        bt_one++;
        if(bt_one == 10) {
            bt_one = 0;
        }
    }
}

eeprom_write(0x00, bt_zero);
eeprom_write(0x01, bt_one);
delay_ms(20);

PORTC.F0 = 0;
PORTB = arraycc[bt_zero];
Delay_ms(10);
PORTC.F0 = 1;

PORTC.F1 = 0;
PORTB = arraycc[bt_one];
Delay_ms(10);
PORTC.F1 = 1;
}
}

```