INPUT : LCD Display

```
1   #include <xc.h>;
2   #include<p18f4550.h>
3   #define LCD_EN LATAbits.LA1
4   #define LCD_RS LATAbits.LA0
5   #define LCDPORT LATB
6
7   void lcd_delay(unsigned int time){
8       unsigned int j, i;
9       for(i=0;i<time;i++){
10      for(j=0;j<100;j++){}
11      }
12  }
13
14  void SendInstruction(unsigned char command){
15      LCD_RS=0;
16      LCDPORT=command;
17      LCD_EN=1;
18      lcd_delay(10);
19      LCD_EN=0;
20      lcd_delay(10);
21  }
22
23  void SendData(unsigned char LcdData){ LCD_RS=1;
24      LCDPORT=LcdData;
25      LCD_EN=1;
26
27      lcd_delay(10);
28      LCD_EN=0;
29      lcd_delay(10);
30  }
31
```

```c
32  void initLCD(void){
33      ADCON1=0x0F;
34      TRISB=0x00;
35      TRISAbits.RA0=0;
36      TRISAbits.RA1=0;
37      SendInstruction(0x38);
38      SendInstruction(0x06);
39      SendInstruction(0x0C);
40      SendInstruction(0x01);
41      SendInstruction(0x80); }
42
43      unsigned char*string1="Microchip";
44      unsigned char*string2="PIC18F4550";
45
46  void main(void) {
47      ADCON1=0x0F;
48      TRISB=0x00;
49      TRISAbits.RA0=0; TRISAbits.RA1=0;
50      SendInstruction(0x38);
51      SendInstruction(0x06);
52      SendInstruction(0x0C);
53      SendInstruction(0x01);
54      SendInstruction(0x80);
55
56      while(*string1){
57      SendData(*string1);
58      string1++; }
59      SendInstruction(0xC0);
60      while(*string2){
61      SendData(*string2);
62      string2++; }
63      while(1);
64
65      return;
66  }
```