```
 1 //LCD HEADER FILE
 2
 3
 4 #include<P18F452.h>
 5 #pragma config OSC = HS
 6 #pragma config PWRT = OFF
 7 #pragma config DEBUG = OFF
 8 #pragma config WDT = OFF
 9 #pragma config LVP = OFF
10
11 #define RS PORTCbits.RC0        //Declaration of pin labels
12 #define RW PORTCbits.RC1
13 #define EN PORTCbits.RC2
14
15 void milliDelay(unsigned int time){//Function for generating delay in
millisecs
16 int i,j;
17 for(i=0;i<time;i++);
18 for(j=0;j<165;j++);
19 }
20
21 void sendCommand(unsigned char send){
22 milliDelay(3);
23 RS = 0;//Select command register
24 RW = 0; //Select write to LCD mode
25 PORTD = send;//Send command to LCD
26 EN = 1;
27 milliDelay(5);
28 EN = 0;
29 }
30
31 void sendData(unsigned char send){
32 milliDelay(3);
33 RS = 1;//Select display register
34 RW = 0; //Select write to LCD mode
35 PORTD = send;//Send command to LCD
36 EN = 1;
37 milliDelay(5);
38 EN = 0;
39 }
40
```

```
41 void displayMsg(unsigned char row,unsigned char column,rom unsigned char
*message){
42 if(row == 1)              //Function for displaying a string
43 row = 0x80;
44 else
45 row = 0xC0;
46
47 sendCommand(row | column);
48 while(*message){
49 sendData(*message);
50 message++;
51 }
52 }
53
54 void initLCD(void){//Function to initialise LCD
55 TRISD = 0x00;
56 TRISCbits.TRISC0 = 0;
57 TRISCbits.TRISC1 = 0;
58 TRISCbits.TRISC2 = 0;
59 sendCommand(0x38);
60 sendCommand(0x0E);
61 sendCommand(0x01);
62 sendCommand(0x06);
63 }
```