```
#include <p18f4550.h>
#define LCD EN LATAbits.LA1
#define LCD_RS LATAbits.LA0
#define LCDPORT LATB
void lcd_delay(unsigned int time)
unsigned int i, j;
  for(i = 0; i < time; i++)
  {
       for(j=0;j<100;j++);
  }
}
void SendInstruction(unsigned char command)
{
                           // RS low : Instruction
  LCD RS = 0;
  LCDPORT = command;
  LCD_EN = 1;
                           // EN High
  lcd delay(10);
  LCD_EN = 0;
                           // EN Low; command sampled at EN falling edge
  lcd delay(10);
}
void SendData(unsigned char lcddata)
  LCD_RS = 1;
                           // RS HIGH : DATA
  LCDPORT = Icddata;
  LCD_EN = 1;
                           // EN High
  lcd_delay(10);
  LCD_EN = 0;
                           // EN Low; data sampled at EN falling edge
  lcd_delay(10);
}
void InitLCD(void)
  ADCON1 = 0x0F;
  TRISB = 0x00; //set data port as output
  TRISAbits.RA0 = 0; //RS pin
  TRISAbits.RA1 = 0; // EN pin
```

```
SendInstruction(0x38);
                          //8 bit mode, 2 line,5x7 dots
  SendInstruction(0x06);
                           // entry mode
  SendInstruction(0x0C);
                           //Display ON cursor OFF
  SendInstruction(0x01);
                          //Clear display
  SendInstruction(0x80);
                          //set address to 1st line
         ************************************
unsigned char *String1 = "Microembedded";
unsigned char *String2 = "PIC-18F Board";
void main(void)
  ADCON1 = 0x0F;
  TRISB = 0x00:
                   //set data port as output
  TRISAbits.RA0 = 0; //RS pin
  TRISAbits.RA1 = 0; // EN pin
  SendInstruction(0x38);
                          //8 bit mode, 2 line,5x7 dots
  SendInstruction(0x06);
                          // entry mode
  SendInstruction(0x0C);
                           //Display ON cursor OFF
  SendInstruction(0x01);
                          //Clear display
  SendInstruction(0x80);
                          //set address to 1st line
while(*String1)
 SendData(*String1);
 String1++;
}
SendInstruction(0xC0);
                       //set address to 2nd line
while(*String2)
 SendData(*String2);
 String2++;
}
while(1);
}
```