```
#include<lpc214x.h>
Void lcd_init(void);
Void wr_cn(void);
Void clr_disp(void);
Void delay(unsigned int);
Void lcd_com(void);
Void wr_dn(void);
Void lcd_data(void);
Unsigned char temp1;
Unsigned long int temp, r;
Unsigned char *ptr, disp[] = "pda,", disp1[] = "cse";
Int main() {
       IO0DIR = 0xFC;
       IOOPIN = 0x00;
       Delay(3200);
       Lcd_init();
       Delay(3200);
       Clr_disp();
       Delay(3200);
      Temp1 = 0x80;
```

```
Lcd_com();
       Ptr = disp;
      While(*ptr) {
             Temp1 = *ptr;
             Lcd_data();
             Ptr++;
      }
      Temp1 = 0xC0;
      Lcd_com();
       Ptr = disp1;
      While(*ptr) {
             Temp1 = *ptr;
             Lcd_data();
             Ptr++;
      }
      While(1);
}
Void lcd_init(void) {
      Temp = 0x30; wr_cn(); delay(3200);
      Temp = 0x30; wr_cn(); delay(3200);
      Temp = 0x30; wr_cn(); delay(3200);
      Temp = 0x20; wr_cn(); delay(3200);
      Temp = 0x28; lcd_com(); delay(3200);
      Temp1 = 0x0C; lcd_com(); delay(800);
```

```
Temp1 = 0x06; lcd_com(); delay(800);
      Temp1 = 0x80; lcd_com(); delay(800);
}
Void lcd_com(void) {
      Temp = temp1 & 0xF0;
      Wr_cn();
      Temp = (temp1 \& 0x0F) << 4;
      Wr_cn();
      Delay(500);
}
Void wr_cn(void) {
      IOOCLR = 0xFC;
      IO0SET = temp;
      IOOCLR = 0x04;
      IO0SET = 0x08;
       Delay(10);
      IOOCLR = 0x08;
}
Void wr_dn(void) {
      IOOCLR = 0xFC;
      IO0SET = temp;
      IOOSET = 0x04;
      IO0SET = 0x08;
```

```
Delay(10);
      IO0CLR = 0x08;
}
Void lcd_data(void) {
      Temp = temp1 & 0xF0;
      Wr_dn();
      Temp = (temp1 \& 0x0F) << 4;
      Wr_dn();
       Delay(100);
}
Void clr_disp(void) {
      Temp1 = 0x01;
      Lcd_com();
       Delay(500);
}
Void delay(unsigned int r1) {
       For(r = 0; r < r1; r++);
}
```