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Device = 16C72
Xtal = 10
Config HS_OSC, WDT_OFF, PWRTE_OFF, BODEN_OFF, CP_ALL
TRISB = $01 : TRISC = $00
PORTB = $00 : PORTC = $00
On Interrupt GoTo ZeroCross

Declare Sonyin_Pin = PORTC.4
Declare LCD_DTPin PORTB.4
Declare LCD_RSPin PORTB.2
Declare LCD_ENPin PORTB.3

Symbol Fan = PORTC.0
Symbol TV = PORTC.1
Symbol L1 = PORTC.2
Symbol L2 = PORTC.3

Symbol GIE = INTCON.7
Symbol PEIE = INTCON.6
Symbol INTE = INTCON.4
Symbol INTF = INTCON.1
Symbol INTEDG = OPTION_REG.6

GIE = 1 : PEIE = 1 : INTE = 1
INTF = 0 : INTEDG = 0

Dim flag As Bit : flag = 0
Dim fan_f As Bit : fan_f = 0
Dim SonyIn_Word As Word
Dim Cmd As SonyIn_Word.LowByte
Dim SonySystem As SonyIn_Word.HighByte
Dim Cnt As Byte
Dim nCnt As Byte
Dim To_cnt As Byte
Dim nTo_cnt As Byte
Dim temp As Byte

nCnt = Cnt : nTo_cnt = To_cnt

Cls

Sys_OFF:
Fan = 1 : TV = 1 : L1 = 1 : L2 = 1 : fan_f = 0
Print At 1,1, "IRremote control"
Print At 2,1, " Sys_Dectivated "
DelayMS 500
While 1 = 1
Repeat
SonyIn_Word = SonyIn
Until Cmd <> 255
If Cmd = 21 Then GoTo Sys_ON
Wend
GoTo Sys_OFF

Sys_ON:
Cls : fan_f = 0
Print At 1,1, "Sys Activating.."
Print At 2,1, "Please Wait..."
DelayMS 500
While 1 = 1
GoSub Remote_check
If Cmd = 21 Then GoTo Sys_OFF
If Cmd = 56 Then GoSub TV_action
If Cmd = 116 Then GoSub L1_action
If Cmd = 117 Then GoSub L2_action
If Cmd >= 0 And Cmd <= 8 Then GoSub Fan_speed
If Cmd = 9 Then
Fan = 0
fan_f = 0
EndIf
Wend
GoTo Sys_ON

TV_action:
TV = ~ TV : DelayMS 200
Return

L1_action:
L1 = ~ L1 : DelayMS 200
Return

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L2_action:
L2 = ~ L2 : DelayMS 200
Return

Fan_speed:
fan_f = 1 : temp = Cmd + 2
Cnt = temp : To_cnt = 10
DelayMS 100
Return

Remote_check:
Repeat
SonyIn_Word = SonyIn
If fan_f = 1 Then
GoSub FAN_regulation
Print At 1,1, "Fan: ", Dec (Cnt * 10), "% "
Else
Fan = 0
Print At 1,1, "Fan Off "
EndIf
If TV = 1 Then
Print At 1,11, "TV Off"
Else
Print At 1,11, "TV On "
EndIf
If L1 = 1 Then
Print At 2,1, "L1 Off "
Else
Print At 2,1, "L1 On "
EndIf
If L2 = 1 Then
Print At 2,11, "L2 Off"
Else
Print At 2,11, "L2 On "
EndIf
Until Cmd <> 255
Return

FAN_regulation:
If flag = 1 Then
If nCnt > 0 Then
Fan = 0 : DelayUS 250
Fan = 1 : Dec nCnt
Else
Fan = 0
EndIf
Dec nTo_cnt
If nTo_cnt == 0 Then
nTo_cnt = To_cnt
nCnt = Cnt
EndIf
flag = 0
EndIf
Return

Disable
ZeroCross:
If INTF == 1 Then
flag = 1 : INTF = 0
EndIf
Resume
Enable

```