

```
$regfile = "m16def.dat" ' specify the u
$crystal = 8000000

Config Porta = Output
Config Portc = Input

Config Lcd = 16 * 2

Config Lcdpin = Pin , Db4 = Portd.0 , Db5 = Portd.1 , Db6 = Portd.2 ,
                Db7 = Portd.3 , E = Portd.6 , Rs = Portd.5

Dim I As Integer
Dim C As Integer
Dim Cm As Integer
Dim Ft As Integer
Dim Inch As Integer

Cls

Cursor Off Noblink

Lcd "| ULTRASONIC |"
Lowerline
Lcd "|DISTANCE METER|"
Wait 2

Cls

Lcd "A PROJECT BY:"
Waitms 900

Cls

Lcd "UJJVAL SHAH - 05BEC080"
Lowerline
Lcd "PRITISH GANDHI - 05BEE069"
Waitms 900
For I = 0 To 8
Shiftlcd Left
Waitms 500
Next
For I = 0 To 8
Shiftlcd Right
Waitms 500
Next

Wait 1

Cls

Lcd "Consider average"
Lowerline
Lcd "for best results "

Wait 3

Start:

Do

Cls

Wait 1

C = 0
I = 0
Cm = 0

Inch = 0

'=====40KHz frequency =====
```

```
While I < 16

Set Porta.0
Waitus 8

Reset Porta.0
Waitus 12

Incr I

Wend

Waitus 1000

'=====Receiving Input from the receiver=====

While Pinc.5 = 0

Incr C

If C > 32000 Then
C = 0

Cls
Lcd "Out of Range OR"
Lowerline
Lcd "Not aligned"
Wait 1

Goto Start

End If

Wend

'=====Caliberation=====

Inch = C + 207
Inch = Inch / 24
Inch = Inch + 1

Cm = Inch * 127
Cm = Cm / 50

'=====LCD=====

Portc.5 = 0

Cls
Lcd Cm ; " cms      "

Lowerline
Lcd Inch ; " inches"
Wait 2

Loop

End                                     'end program
```