```
#include <LiquidCrystal.h>
#include <Servo.h>
Servo s:
int t=8;
int e=9;
const int rs=12,en=11,d4=5,d5=4,d6=3,d7=2;
LiquidCrystal lcd(rs,en,d4,d5,d6,d7);
void setup()
{
 lcd.begin(16,2);
 lcd.print("temperature");
 s.attach(6);
 pinMode(t,OUTPUT);
 pinMode(e,INPUT);
 Serial.begin(9600);
void loop()
 double a=analogRead(A0);
 double aC=map(a,20,358,-40.0,125.0);
 lcd.setCursor(0,1);
 lcd.print(aC);
 delay(500);
 if(aC>50)
  for (int i=0;i<20000;i=i+10)
 tone(10,i);
 else
 noTone(10);
 digitalWrite(13,0);
 int b=digitalRead(7);
 if(b){
  digitalWrite(13,1);
  delay(100);
 digitalWrite(t,0);
 digitalWrite(t,1);
 delay(10);
```

```
digitalWrite(t,0);
float D=pulseIn(e,2);
float d=(D*0.0343/2);
Serial.printIn(d);
delay(500);
if (d<=100)
    s.write(180);
else
    s.write(0);
}</pre>
```