PROGRAM:

```
#include <LiquidCrystal_I2C.h>
#include <DHT .h>;
LiquidCrystal_I2C lcd(0x27, 16, 2);
#define DHTPIN 2
#define DHTTYPE DHT22
DHT dht(DHTPIN, DHTTYPE);
int chk;
float H;
float T;
int buzzer = 12;
void setup(){
  lcd .init(); lcd .backlight(); dht .begin(); pinMode(buzzer, OUTPUT);
 Serial .begin (9600); Serial .println ("DHT22 sensor with Arduino Uno
R3!");
  pinMode(9, OUTPUT); pinMode(10, OUTPUT); pinMode(11, OUTPUT);
}
void loop(){
  delay (2000);
  H = dht.readHumidity();
  T = dht.readTemperature();
  Serial .print("Humidity: ");
  Serial .print(H);
  Serial .println(" %; ");
  Serial .print("Temperature: ");
  Serial .print(T);
  Serial .println(" Fehernheat .\n");
  if(H \ge 30.00 \&\& T \ge 30.00)
    digitalWrite(9, HIGH);
    digitalWrite(10, LOW);
    digitalWrite(11, LOW);
    lcd .println(" Too warm!
    lcd .setCursor(0, 1);
    lcd.println(" Cool down! ");
    lcd .setCursor(0, 0);
    digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
    delay (400);
    digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
    delay (400);
    digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
    delay (400);
    digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
    delay (400);
}else{
    digitalWrite(9, LOW);
```

```
digitalWrite(10, LOW);
  digitalWrite(11, HIGH);
  lcd.println("Temp. & hum. are"); lcd.setCursor(0, 1);
  lcd.println("in normal limits"); lcd.setCursor(0, 0);
  digitalWrite(buzzer, 0);
}
```

CIRCUIT:



