#include <LiquidCrystal.h>

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

float temp;

int tempPin = A1;

#define fan 9

void setup()

{

 pinMode (fan, OUTPUT);

 lcd.begin(16,3);

 lcd.setCursor(3,1);

 lcd.print("Tech Point");

 delay(1000);

 lcd.clear();

 lcd.setCursor(1,0);

 lcd.print("KH TECHNICAL");

 delay(8000);

 lcd.clear();

 lcd.print("KARTIK HALDAR");

 delay(5000);

 lcd.clear();

 lcd.print("AUTO TEMPERATURE");

 delay(2000);

 lcd.clear();

}

void loop()

{

 lcd.setCursor(3, 0);

 lcd.print("Recording");

 lcd.setCursor(2, 1);

 lcd.print("Temperature..");

 delay(3000);

 lcd.clear();

 lcd.setCursor(0, 2);

 temp = analogRead(tempPin);

 temp = temp \* 0.48828125;

 lcd.setCursor(0, 0);

 lcd.print("TEMPERATURE = ");

 lcd.setCursor(5, 1);

 lcd.print(temp);

 delay(2000);

 lcd.clear();

 if(temp <19)

 {

 analogWrite(9,0);

 lcd.print("Fan Off");

 delay(2000);

 lcd.clear();

 }

 else if(temp<=21)

 {

 analogWrite(fan, 51);

 lcd.print("Fan Speed: 20% ");

 delay(2000);

 lcd.clear();

 }

 else if(temp<=25)

 {

 analogWrite(fan,102);

 lcd.print("Fan Speed: 40% ");

 delay(2000);

 lcd.clear();

 }

 else if(temp<=28)

 {

 analogWrite(fan,153);

 lcd.print("Fan Speed: 60% ");

 delay(2000);

 lcd.clear();

 }

 else if(temp<=30)

 {

 analogWrite(fan, 200);

 lcd.print("Fan Speed: 80% ");

 delay(2000);

 lcd.clear();

 }

 else if(temp>=35)

 {

 analogWrite(fan, 255);

 lcd.print("Fan Speed: 100% ");

 delay(2000);

 lcd.clear();

 }

}