#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();

}

}