**Smart house(Using buzzer,led,sensors)**

**[code]**

const int hot = 87; //set hot parameter

const int cold = 75; //set cold parameter

int Buzz= 13; // Define Bizzer pin

int PIR= 4; // Define PIR pin

int val= 0; // Initializing the value as zero at the beginning

void setup() {

pinMode(A1, INPUT); //sensor

pinMode(12, OUTPUT); //red

pinMode(11, OUTPUT); //green

pinMode(10, OUTPUT); //blue

Serial.begin(9600);

pinMode(Buzz, OUTPUT);

pinMode(PIR, INPUT);

Serial.begin(9600);

}

void loop() {

int sensor = analogRead(A2);

float voltage = (sensor / 1024.0) \* 5.0;

float tempC = (voltage - .5) \* 100;

float tempF = (tempC \* 1.8) + 32;

Serial.print("temp: ");

Serial.print(tempF);

if (tempF < cold) { //cold

digitalWrite(12, HIGH);

digitalWrite(11, LOW);

digitalWrite(10, LOW);

Serial.println(" It's Cold.");

if(val == HIGH){

digitalWrite(Buzz, HIGH); // Turn Buzzer ON

Serial.println("Movement Detected"); // Print this text in Serial Monitor

}

else if (tempF >= hot) { //hot

digitalWrite(12, LOW);

digitalWrite(11, LOW);

digitalWrite(10, HIGH);

Serial.println(" It's Hot.");

}

else { //fine

digitalWrite(12, LOW);

digitalWrite(11, HIGH);

digitalWrite(10, LOW);

Serial.println(" It's Fine.");

digitalWrite(Buzz, LOW);

Serial.println("Movement not Detected");

}

delay(1000);

}

}

[/code]

Circuit diagram:

