Smart Home using Arduino

float temp;

float vout;

float vout1;

int gassensor;

int PIRsensor=9;

int Buzzer=11;

int led1=12;

int led2=13;

void setup()

{

Serial.begin(9600);

pinMode(Buzzer,OUTPUT);

pinMode(PIRsensor,INPUT);

pinMode(led1,OUTPUT);

pinMode(led2,OUTPUT);

pinMode(A0,INPUT);

pinMode(A1,INPUT);

}

void loop()

{

vout=analogRead(A0);

vout1=(vout/1023)\*5000;

temp=(vout1-500)/10;

gassensor=analogRead(A1);

if(digitalRead(PIRsensor)==HIGH)

{

digitalWrite(Buzzer,HIGH);

digitalWrite(led1,HIGH);

}

else

{

digitalWrite(Buzzer,LOW);

digitalWrite(led1,LOW);

}

if(temp>=80)

digitalWrite(led2,HIGH);

else

digitalWrite(led2,LOW);

if(gassensor>=100)

digitalWrite(Buzzer,HIGH);

else

digitalWrite(Buzzer,LOW);

}