Smart Home using Arduino

float temp;

float vout;

float vout1;

int gassensor;

int PIRsensor=9;

int Buzzer1=11;

int Buzzer2=12;

int led1=10;

int led2=13;

void setup()

{

Serial.begin(9600);

pinMode(Buzzer1,OUTPUT);

pinMode(led1,OUTPUT);

pinMode(PIRsensor,INPUT);

pinMode(Buzzer2,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(Buzzer1,HIGH);

digitalWrite(led1,HIGH);

}

else

{

digitalWrite(Buzzer1,LOW);

digitalWrite(led1,LOW);

}

if(temp>=80)

digitalWrite(led2,HIGH);

else

digitalWrite(led2,LOW);

if(gassensor>=100)

digitalWrite(Buzzer2,HIGH);

else

digitalWrite(Buzzer2,LOW);

}