

ASSIGNMENT 1

HOME AUTOMATION

Date	19 September 2022
Team ID	PNT2022TMID18146
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	

CODE:

```
int t=2;

int e=3;

int l=13;

void setup()
{
    pinMode(t,OUTPUT);
    pinMode(8,OUTPUT);
    pinMode(7,OUTPUT);
    pinMode(e,INPUT);
    pinMode(l,OUTPUT);
    Serial.begin(9600);
}

void loop()
{
    digitalWrite(8,0);
    int a=digitalRead(4);
    Serial.println(a);
    if(a==1)
    {
        digitalWrite(8,1);
```

```
    Serial.println("Motion detected!!!");  
}  
delay(1000);  
  
digitalWrite(t,0);  
digitalWrite(t,1);  
delayMicroseconds(10);  
digitalWrite(t,0);  
float dur=pulseIn(e,HIGH);  
int dis=(dur*0.0343)/2;  
analogWrite(l,map(dis,2,320,255,0));  
  
double b=analogRead(A0);  
  
double t=((b/1024)*5)-0.5)*100;  
Serial.print("temperature value: ");  
Serial.println(t);  
if(t>100)  
    digitalWrite(7,1);  
else  
    digitalWrite(7,0);  
delay(1000); delay(1000);  
  
}
```

BY

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