

Assignment -1

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Question:

Build a Smart home using thinkercad, take any sensors (atleast 2) and use LED and Buzzer

Solution:

```
void setup()
{
  Serial.begin(9600);
  pinMode(13,OUTPUT);
  pinMode(7,OUTPUT);
  pinMode(2,INPUT);
}

void loop()
{
  double a=analogRead(A0);
  double t=((a/1024*5)-0.5)*100;
  Serial.println(t); delay(1000);
  if(t>50){
    tone(13,220,100);
    Serial.print("temperature is
high"); Serial.println(t);
    delay(200);
  }
  else if(t<0){
    tone(13,220,100);
```

```
Serial.print("temperature is too low");  
Serial.println(t);  
delay(200);  
}  
else  
{  
Serial.print("temperature is moderate");  
Serial.println(t);  
}  
int b=digitalRead(3);  
if(b==1)  
{  
digitalWrite(7,HIGH);  
}  
else  
{  
digitalWrite(7,LOW);  
}  
}
```

