Assignment Date	25 October 2022
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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);

}

}
```