

ASSIGNMENT – 1

Assignment Date	19 September 2022
Student Name	NIRANJANA .K
Student Roll Number	19CS096
Maximum Marks	2 Marks

QUESTION:

Build a Smart home using tinkercad, 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 TOO HIGH");
    Serial.println(t);
    delay(200);
```

```
}  
else if(t<0){  
tone(13,220,100);  
Serial.print("TEMPERATURE IS 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);  
}  
}
```