

Assignment -1

Assignment Date	19 September 2022
Student Name	GURRAM THEJASWI
Student Roll Number	511319106011
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 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);  
}  
}
```

