

## Assignment -1

Tinkercad

Assignment Date	15 september 2022
Student Name	PRAVEENA S
Student Roll Number	621319106069
Maximum Marks	2 Marks

### Question-1:

Home automation using tinkercad

#### Solution:

```
int t=2;  
int e=3;  
void setup()  
{  
    Serial.begin(9600);  
    pinMode(13,OUTPUT);  
    pinMode(12,OUTPUT);  
    pinMode(t,OUTPUT);  
    pinMode(e,INPUT);  
}  
  
void loop()  
{  
    double a=analogRead(A0);  
    double t=(((a/1024)*5)-0.5)*100;  
    Serial.print("temp value:");  
    Serial.println(t);  
    if(t>23)  
        digitalWrite(13,HIGH);  
    else  
        digitalWrite(13,LOW);  
    digitalWrite(t,LOW);  
    digitalWrite(t,HIGH);
```

```

delayMicroseconds(10);

digitalWrite(t,LOW);

float dur=pulseIn(e,HIGH);

float dis=(dur*0.0343)/2;

Serial.print("Distance : ");

Serial.println(dis);

Serial.println(" cm");

if(dis>100)

  digitalWrite(12,HIGH);

else

  digitalWrite(12,LOW);

}

```

