

# Assignment 1

- Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

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MAXIMUM MARKS	2 MARKS

## **Program :**

```
int t=2;
int e=3;
void setup()
{
  Serial.begin(9600);
  pinMode(e,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
}
void loop()
{
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delayMicroseconds(20);
  digitalWrite(t,LOW);
  float dur=(e,HIGH);
  float dis=(dur*0.0343)/2;
  Serial.print("Distanceis");
  Serial.println('dis');
  if(dis>=100)
  {
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
  }
  if(dis>=100)
  {
    for(int i=0;i<=30000;i=i+10)
    {
      tone(12,1);
```

```
delay(1000);
noTone(12);
delay(1000);
}
}
double a=analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value");
Serial.println(t);
delay(1000);
if(t>=100);
{
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
if(t=100);
{
for(int i=0;i<3000;i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
if(t<100)
{
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}
```

**OUTPUT:**

