Assignment -1

Assignment Date 30 October 2022

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Maximum Marks 2 Marks

Question:

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

Code:

```
int led = 8;
int trig = 2;
int echo = 5;
int buzzer = 4;
void setup()
 Serial.begin(9000);
 pinMode(led,OUTPUT);
 pinMode(trig,OUTPUT);
 pinMode(echo,INPUT);
 pinMode(buzzer,OUTPUT);
void loop()
  double a = analogRead(A2);
 double v = a / 1024;
 double tvolt = v * 5;
 double o = tvolt - 0.5;
 double t = 0 * 100;
 Serial.print("Temperature in degree");
 Serial.println(t);
```

```
if(t >= 50)
    digitalWrite(led,HIGH);
  else
    digitalWrite(led,LOW);
  digitalWrite(trig,LOW);
  digitalWrite(trig,HIGH);
  delayMicroseconds(10);
  digitalWrite(trig,LOW);
  float dur = pulseIn(echo,HIGH);
  float dist = (dur * 0.343)/2;
  Serial.print("Distance");
  Serial.println(dist);
  if(dist >= 17)
    digitalWrite(buzzer,HIGH);
  else
    digitalWrite(buzzer,LOW);
Output :
```

