#### PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECNOLOGY

Mambakkam - Medavakkam Main Rd, Ponmar, Chennai, Tamil Nadu 600127

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## **ASSIGNMENT-1**

Assignment Date	19 September 2022
Student Name	Mr. Manoj Kumar.S
Student Roll Number	411619104015
Maximum Marks	2 Marks

## **QUESTION:**

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.

# **SOLUTION:**

```
int t=2;
int e=3;
void
setup()
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
}
void loop()
  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
  is: ");
```

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```
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,i);
  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<=30000; i=i+10)
```

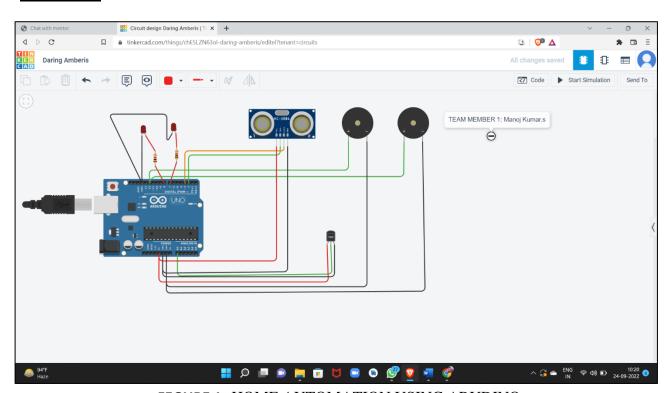
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```
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}

if(t<100)
{
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
}</pre>
```

## **OUTPUT:**



**FEGURE 1**: HOME AUTOMATION USING ARUDINO