**Nadar Saraswathi College of Engineering and Technology**

Department of Electronics and Communication Engineering

IOT Assignment

**Topic** : Assignment on home automation using Arduino

**Name**: tamilarasan.m

**Code:-**

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: ");

Serial.println(dis);

}

if(dis>=100)//(in terms of centimeter)

{

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); //LED ON

if(t>=100)//(in terms of celsius)

{

digitalWrite(8,HIGH); digitalWrite(7,HIGH);

}

if(t>=100)

{

for(int i=0; i<=30000; i=i+10)

{

tone(12,i); delay(1000); noTone(12);

delay(1000);

}

}

if(t<100)

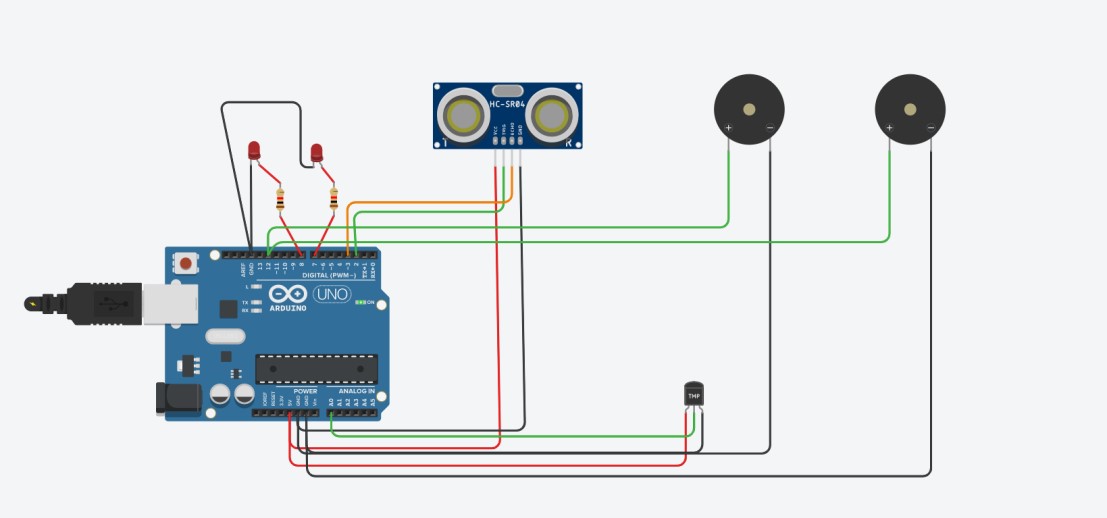
{

digitalWrite(8,LOW); digitalWrite(7,LOW);

}

}

**OUTPUT:-**



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*