# St.Joseph College of Engineering

# Sriperumbudur

Department of Computer Science and Engineering

IOT Assignment

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

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# 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:-**

