

**HINDUSTHAN COLLEGE OF ENGINEERING**  
**AND TECHNOLOGY-COIMBATORE-641022**

Department of Electronics and Communication 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) {
    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: ");
S 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)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
} if(t<100)
{

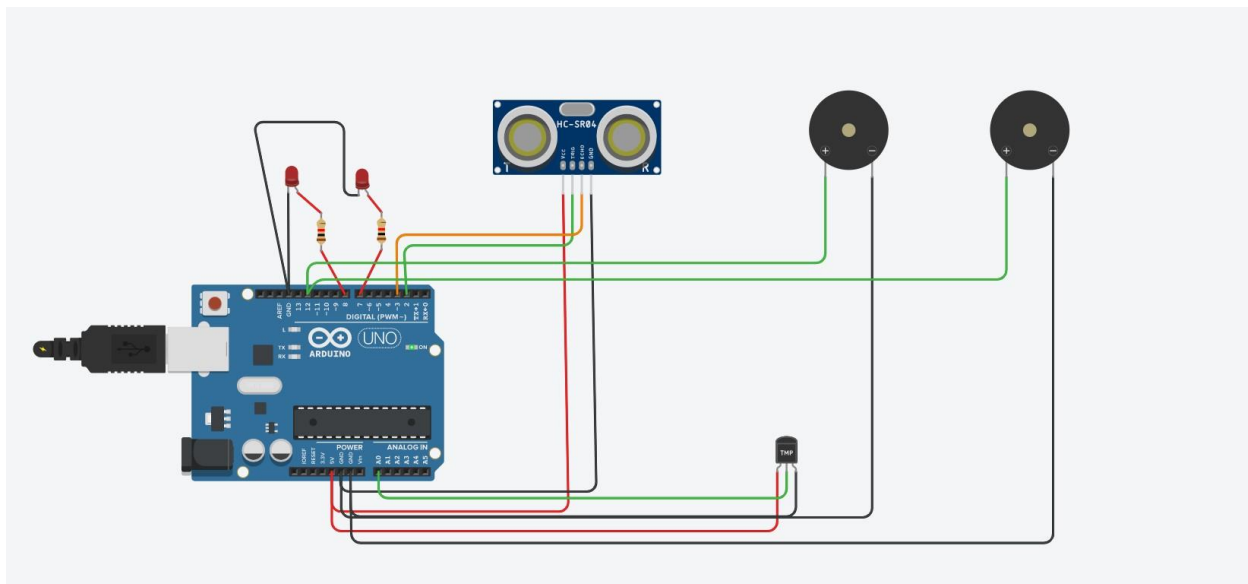
```

```

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

```

## **OUTPUT:-**



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