

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(20);
  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(10000);
        noTone(12);
        delay(10000);
    }
}
if(t<100)
{
    digitalWrite(7,LOW);
} } digitalWrite(8,LOW);
digitalWrite(7,LOW);
} }

```

Output

