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);
f(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:-

