

# **ST.JOSEPH COLLEGE OF ENGINEERING**

Department of Computer Science and Engineering

## IOT Assignment

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

**Name:**MOHAMMED AL OSSAMA.R

**Reg No :212919104028**

**Team ID:PNT2022TMID26570 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);

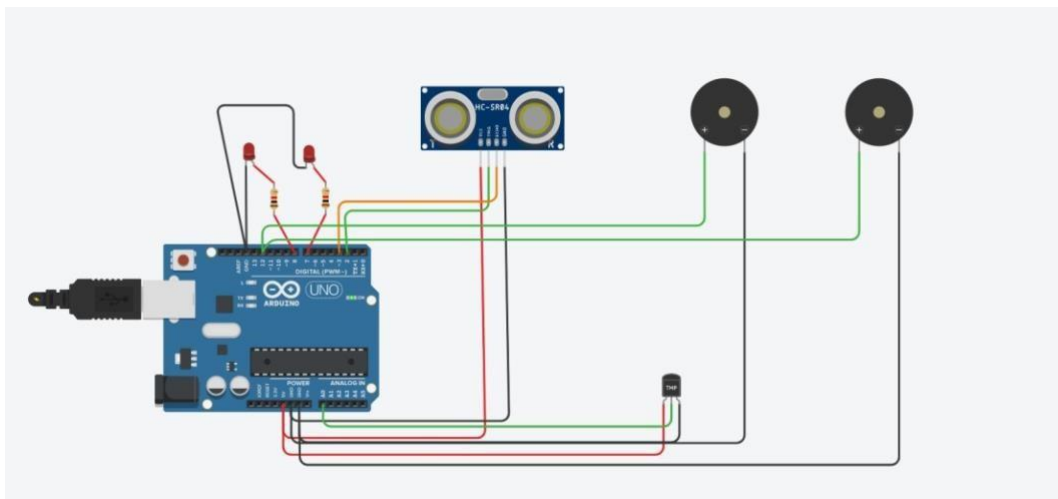
  digitalWrite(t,HIGH);
  delayMicroseconds(10);
  digitalWrite(t,LOW); float
  dur=pulseIn(e,HIGH); float
  dis=(dur*0.0343)/2;
  Serial.print("Distance is:
  ");
  Serial.println(dis);
}
if(dis>=100)//(in terms of centimeter)
{
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
}
if(dis>=100)
{
  for(int 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:-**



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