ST.JOSEPH COLLEGE OF ENGINEERING

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);
```
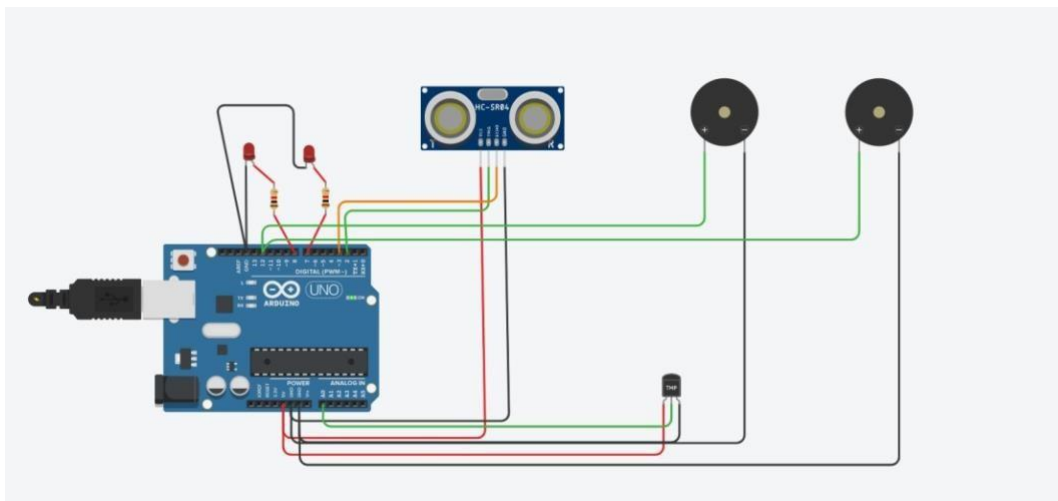
```
delay(1000);
}
}
double a= analogRead(A0); double
t=(((a/1024)*5)-0.5)*100; Serial.print("Temp
Value: "); Serial.println(t);
delay(1000); //LED
ON
if(t>=100)//(in terms of celsius)
{
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
} if(t>=100)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i); delay(1000);
noTone(12); delay(1000);
}
}
if(t<100)
{
digitalWrite(8,LOW); digitalWrite(7,LOW);
}
}
```

OUTPUT:-

****