VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

Topic : Assignment on home automation using Audino

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Code:-

```
intt=2;
        int e=3;
        void setup()
        {
          Serial.begin(9600);
          pinMode(t,OUTPUT);
          pinMode(e,INPUT);
          pinMode(12,OUTPUT);
        }
        void loop()
        {
          //ultrasonic sensor
          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);
            //LED ON
          if(dis>=100)
          {
            digitalWrite(8,HIGH);
            digitalWrite(7,HIGH);
          }
          //Buzzer For ultrasonic Sensor
          if(dis>=100)
```

```
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
   //Temperate Sensor
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)
{
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
}
//Buzzer for Temperature Sensor
if(t>=100)
{
for(int i=0; i<=30000; i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}
 //LED OFF
if(t<100)
{
  digitalWrite(8,LOW);
  digitalWrite(7,LOW);
}
}
```

Output:-

****