# Mahendra Engineering College mallasamudhiram-637503.

#### Department of INFORMATION TECHNOLOGY

### **IOT** Assignment

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

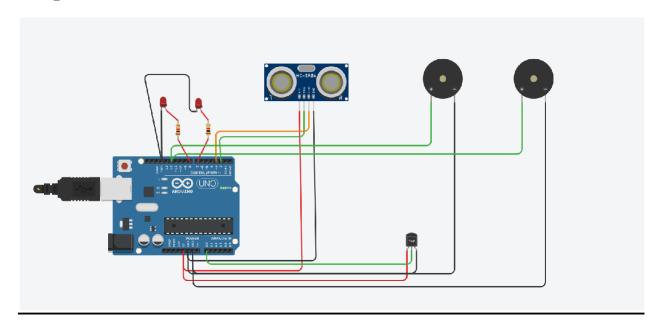
Name: Shanmugam P

#### 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:-



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