

# **VSB Engineering College, Karur-639111**

**Department of Electronics and Communication Engineering**

## **IOT Assignment**

**Topic :** Assignment on temperature and humidity sensing and alarm

**DOMAIN NAME :** Internet Of Things

**Name:** Santhosh Kumar M

**MENTOR NAME :** Mahesh Kumar k

### **SOURCE CODE:**

```
int t=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);
}
}
```

