

# **VSBEngineeringCollege,Karur-639111**

Department of Information Technology

IOT Assignment

**Topic:**Assignment on homeautomation with sensors and light

**DOMAINNAME:**Internet Of Things

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**MENTOR NAME :**

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## **Code:-**

```
int    t=2;
inte=3;
voidsetup(
)
{
  Serial.begin(9600);pinMode(t,OUTPUT);p
inMode(e,INPUT);pinMode(12,OUTPUT);
}
voidloop()
{
  digitalWrite(t,LOW);

  digitalWrite(t,HIGH);delayMicroseconds(1
0);digitalWrite(t,LOW);floatdur=pulseIn(e,
HIGH);floatdis=(dur*0.0343)/2;Serial.print
("Distance is: ");Serial.println(dis);

}
if(dis>=100)//(intermsofcentimeter)
{
  digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
if(dis>=100)
```

```

{
for(int i=0;i<=30000;i=i+10)
{
tone(12,i);de
lay(1000);no
Tone(12);del
ay(1000);
}
}
double a= analogRead(A0);double
t=((a/1024)*5)-
0.5)*100;Serial.print("TempValue:
");Serial.println(t);delay(1000);//L
ED
ONif(t>=100)//(interms 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:-**

