

VSBEngineeringCollege,Karur-639111

Department of Information Technology

IOTAssignment

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

DOMAINNAME:Internet Of Things

Name:Tamilselvan S

MENTOR NAME :

G.Praveenkumar

Code:-

```
int    t=2;
inte=3;
voidsetup
(
)
{
  Serial.begin(9600);pinMode(t,OUTPUT);
  pinMode(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.pri
  nt("Distance is: ");Serial.println(dis);

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



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```
}  
if(dis>=100)
```



```

{
for(int i=0;i<=30000;i=i+10)
{
tone(12,i);d
e
lay(1000);n
o
Tone(12);de
lay(1000);
}
}
double a=
analogRead(A0);double
t=((a/1024)*5)-
0.5)*100;Serial.print("TempValu
e:
");Serial.println(t);delay(1000);//
L E D
O N if(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(10
00
);
}
}
if(t<100)
{
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}

```



OUTPUT:-

