

S.AENGINEERINGCOLLEGECHENNAI600077

DepartmentofElectronicsandCommunicationEngineeringIO

TAssignment

Topic:Assignmentonhomeautomationwithsensorsandlight

DOMAINNAME:InternetOfThings

Name: MOHAN RAJ.M

MENTORNAME:MARIARUBINSTON

Code:-

```
Int
t=2;inte=
3;voidset
up()
{
  Serial.begin(9600);pinMode(t,OUTPUT
);pinMode(e,INPUT);pinMode(12,OUTP
UT);
}
voidloop()
{
  digitalWrite(t,LOW);

  digitalWrite(t,HIGH);delayMicroseconds
(10);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);d
elay(1000);n
oTone(12);d
elay(1000);
}
}
double
a=analogRead(A0);dou
ble t=((a/1024)*5)-
0.5)*100;Serial.print("TempValu
e:");Serial.println(t);delay(1000)
;
//LED
ON if(t>=100)//(interms of celsiu
s)
{
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}if(t>=100
)
{
for(int i=0;i<=30000;i=i+10)
{
tone(12,i);delay(100
0);noTone(12);delay(
1000);
}
}
if(t<100)
{
digitalWrite(8,LOW);
digitalWrite(7,LOW);
}
}

```

OUTPUT

