S.A ENGINEERING COLLEGE CHENNAI 600077

Department of Electronics and Communication Engineering IOT Assignment

Topic: Assignment on home automation with sensors and light

DOMAINNAME: Internet Of Things

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Code:-

```
int
     t=2:
inte=3;
voidsetup
()
Serial.begin(9600);pinMode(t,OUTPUT
);pinMode(e,INPUT);pinMode(12,OUT
PUT);
}
voidloop()
digitalWrite(t,LOW);
digitalWrite(t,HIGH);delayMicroseconds
(10);digitalWrite(t,LOW);floatdur=pulsel
n(e,HIGH);floatdis=(dur*0.0343)/2;Seri
al.print("Distance is:
");Serial.println(dis);
if(dis>=100)//(intermsofcentimeter)
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
if(dis > = 100)
```

```
for(inti=0;i <= 30000;i=i+10)
tone(12,i);d
elay(1000);n
oTone(12);d
elay(1000);
}
}
double a=
analogRead(A0);double
t=(((a/1024)*5)-
0.5)*100;Serial.print("TempValu
");Serial.println(t);delay(1000);/
/LED
ONif(t>=100)//(intermsofcelsiu
s)
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
if(t>=100)
for(inti=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

