# 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

**Name**: CAUVERY S

# MENTOR NAME : MARIA RUBINSTON

**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=pulseI 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 e: ");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**

