**SNS COLLEGE OF TECHNOLOGY**

**COIMBATORE 641305**

Department of Computer Science and Engineering

IOT Assignment

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| Assignment Date | 12 September 2022 |
| Student Name | Vimal Kumar R |
| Student Roll Number | 19CS165 |
| Maximum Marks | 2 Marks |

**Topic**: Assignment on home automation with sensors and light

# TEAM ID : PNT2022TMID18062

**MENTOR NAME : SR . JANANI**

**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**

