**ASSIGNMENT – 1**

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| --- | --- |
| Assignment Date |  |
| Student Name |  |
| Student Roll Number |  |
| Maximum Marks | 2 Marks |

**QUESTION:**

Build a Smart home using tinkercad, take any sensors (atleast 2) and use LED and Buzzer

**SOLUTION:**

void setup()

{

Serial.begin(9600);

pinMode(13,OUTPUT);

pinMode(7,OUTPUT);

pinMode(2,INPUT);

}

void loop()

{

double a=analogRead(A0);

double t=(((a/1024\*5)-0.5)\*100);

Serial.println(t);

delay(1000);

if(t>50){

tone(13,220,100);

Serial.print("temperature is high");

Serial.println(t);

delay(200);

}

else if(t<0){

tone(13,220,100);

Assignment Date

19 September 2022

Student Name

Deepalakshmi S

Student Roll Number

511319106006

Maximum Marks

2 Marks

Serial.print("temperature is too low");

Serial.println(t);

delay(200);

}

else

{

Serial.print("temperature is moderate");

Serial.println(t);

}

int b=digitalRead(3);

if(b==1)

{

digitalWrite(7,HIGH);

}

else

{

digitalWrite(7,LOW);

}

}