

ASSIGNMENT-01

Team Leader	KAVIYARASAN C
Register Number	421819104011
Date	07/09/2022
Team ID	PNT2022TMID38983
Project Name	Smart farmer- IOT Enabled Smart Farming Application
Maximum marks	2 Marks

Question-1:

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single circuit.

Solution :

Source code:

```
int t=2;

int e=3;

void setup() {

Serial.begin(9600);

pinMode(t,OUTPUT);

pinMode(e,INPUT);

pinMode(12,OUTPUT);

} void loop() {

digitalWrite(t,LOW);

digitalWrite(t,HIGH);

delayMicroseconds(10);

digitalWrite(t,LOW);

float dur=pulseIn(e,HIGH);

float dis=(dur*0.0343)/2;

Serial.print(&quot;Distance is: &quot;);

Serial.println(dis);
```

```

if(dis>=100) {
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
}
if(dis>=100)
{
    for(int i=0; i<=30000; i=i+10)

    {
        tone(12,i);
        delay(1000);
        noTone(12);
        delay(1000);
    }
}

double a= analogRead(A0);
double t=((a/1024)*5)-0.5)*100;

Serial.print("Temp Value: "); S
Serial.println(t);
delay(1000);
if(t>=100) {
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
}
if(t>=100)
{
    for(int i=0; i<=30000; i=i+10)

```

```
{  
tone(12,i);  
delay(1000);  
noTone(12);  
delay(1000);  
}  
  
}  
  
if(t<100)  
{  
digitalWrite(8,LOW);  
digitalWrite(7,LOW);  
}  
}
```