

ASSIGNMENT-01

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Date	04/11/2022
Team ID	PNT2022TMD17065
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(""Distance is "");

  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);  
}  
  
}
```