

ASSIGNMENT-01

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Date	07/09/2022
Team ID	PNT20P22TMID38983
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);  
}  
}
```