Assignment -1

SmartFarmer - IoT Enabled Smart Farming Application

Assignment Date	22 September 2022
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Maximum Marks	2 Marks

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)//(in terms of centimeter)

 {
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: ");
 Serial.println(t);
 delay(1000);
 //LED ON if(t>=100)//(in terms of celsius)
 {
 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);
 }
 }
```