

Assignment-1

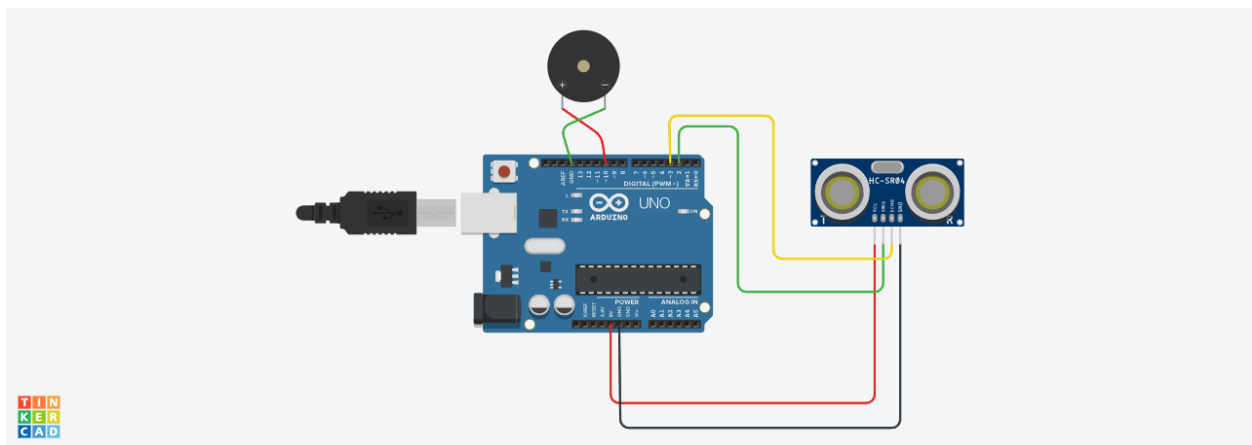
Smart Crop protection System for Agriculture

Date	16 September 2002
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Maximum Marks	2 Marks

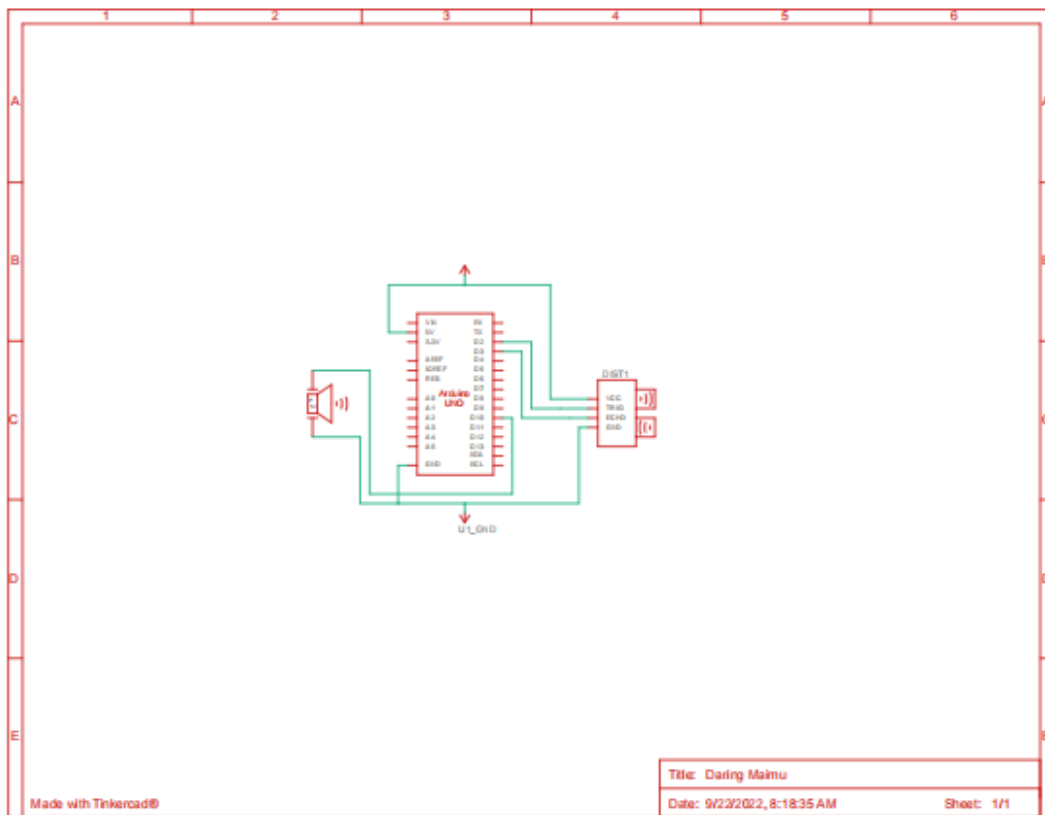
Question-1:

Make a Smart Home in Tinkercard, using 2+ sensors, Led, Buzzer in single code and circuit.

Circuit Diagram:



Schematic View:



Coding:

float x,y,z,temp;

void setup()

{

pinMode (8, INPUT);

pinMode (5, OUTPUT);

pinMode (6, OUTPUT);

pinMode (A5, INPUT);

pinMode (A4, INPUT);

Serial.begin(9600);

}

void loop()

{

```
x= digitalRead(8);
y= analogRead(A5);
z= analogRead(A4);
Serial.println(x);
Serial.println(y);
Serial.println(z);
temp = (double)z / 1024;
temp = temp * 5;
temp = temp - 0.5;
temp = temp + 100;
if ( (x>0) )
{
  if ((y<550)&&(temp>30))
  {
    digitalWrite(5, HIGH);
    digitalWrite(6, LOW);
  }
  else if((y<550)&&(temp>30))
  {
    digitalWrite(5, LOW);
    digitalWrite(6, HIGH);
  }
  else if((y<550)&&(temp>30))
  {
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
  }
}
else
```

```
{  
digitalWrite(5, LOW);  
digitalWrite(6, LOW);  
}
```