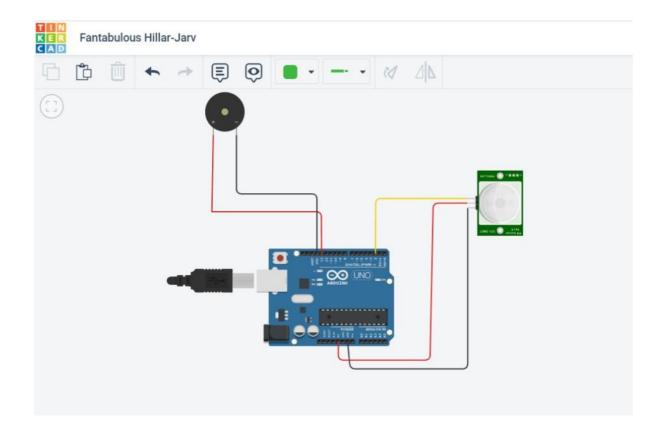
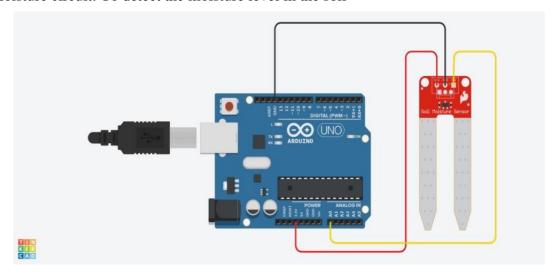
SPRINT-1

TEAM ID	PNT2022TMID04647
Project Name	IoT Based Smart Crop Protection System for
	Agriculture

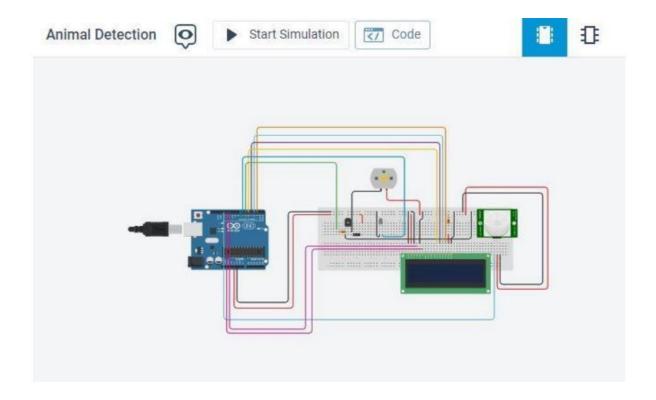
Bird's detection circuit: Protect the fruits and vegetables from thebirds by using Piezo electric buzzer with Arduino.



Moisture circuit: To detect the moisture level in the soil



Animal detection circuit: without fencing, to detect the animal entrying the field



CODE:

Birds detection circuit: Protect the fruits and vegetables from thebirds by using piezo electric buzzer with Arduino

```
void setup()
pinMode(2,INPUT);
pinMode(13,OUTPU);
void loop()
{
if (digitalRead(2)==HIGH)
{
digitalWrite(13,HIGH);
else
digitalWrite(13,LOW);
}
delay(10);
Moisture circuit: To detect the moisture level in the soil
int moisture Value;
float moisture_percentage;void
setup()
{
Serial.begin(9600);
}
void loop()
moistureValue = analogRead(A0); moisture_percentage =
((moistureValue/539.00)*100);Serial.print("\nMoisture Value :
"); Serial.print(moisture_percentage);
Serial.print("%")
delay(1000);
```

```
}
Animal detection circuit: without fencing, to detect theanimals entry in the field
#include<LiquidCrystal.h>
LiquidCrystal lcd(11,12,5,4,3,2);int
led = 7;
int pirPin = 13;
void setup(){
pinMode(6,OUTPUT);
lcd.begin(16,2);
pinMode(led, OUTPUT);
pinMode(pirPin, INPUT);
Serial.begin(9600);
}
void loop()
lcd.blink();
int a = digitalRead(pirPin);
Serial.println(a);
if(a==HIGH)
{
lcd.setCursor(1,1);
lcd.print("Animal Detected");
digitalWrite(led, HIGH);
digitalWrite(6, LOW);
delay(2000);
lcd.clear();
}
else
digitalWrite(led, LOW);
digitalWrite(6, HIGH);
lcd.clear();
```