

SPRINT 1

DATE	14 November 2022
TEAM ID	PNT2022TMID04713
PROJECT NAME	IOT BASED SMART CROP PROTECTION FOR AGRICULTURE
MAXIMUM MARK	20 MARKS

The screenshot shows the IBM Watson IoT Platform interface. The main page is titled 'Browse Devices' and includes a sidebar with navigation icons. A 'Simulations' modal is open, displaying a table of simulation events. The modal has a header with '3 events sent' and '133 bytes sent'. It includes filters for 'NodeMCU' and 'Device ID'. The table lists two simulation events for NodeMCU 9876543210, each with a JSON payload containing random number, temperature, and humidity data.

Event Type	NodeMCU	Device ID	Count
eventflow	NodeMCU	9876543210	× 2
{"randomNumber":2,"temp":94,"hum":66}			
{"randomNumber":85,"temp":102,"hum":61}			
eventflow	NodeMCU	9876543210	× 1
{"randomNumber":49,"temp":105,"hum":79}			

The screenshot shows the IBM Watson IoT Platform interface. The main page is titled 'Browse Devices' and includes a sidebar with navigation icons. The page displays a table of recent events for a specific device. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events are listed as 'eventflow' with JSON payloads containing random number, temperature, and humidity data. A status box at the bottom indicates '1 Simulation running'.

Event	Value	Format	Last Received
eventflow	{"randomNumber":22,"temp":99,"hum":95}	json	a few seconds ago
eventflow	{"randomNumber":91,"temp":90,"hum":93}	json	a minute ago
eventflow	{"randomNumber":9,"temp":103,"hum":98}	json	2 minutes ago
eventflow	{"randomNumber":32,"temp":108,"hum":96}	json	3 minutes ago
eventflow	{"randomNumber":8,"temp":97,"hum":61}	json	4 minutes ago

1 Simulation running

IBM Watson IoT Platform

smart crop

Line chart

1 minute

temp hum

now

Device Type: NodeMCU

Events 1

New event type

Event type name eventflow

Send

Schedule

1 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
0 {  
1   "randomNumber": random(0, 100)  
2   "temp": random(90, 110)  
3   "hum": random(60, 100)  
4 }  
5
```

Upload a CSV file

Cancel Save

IBM Watson IoT Platform

smart crop

Line chart

1 minute

temp hum

now

Donut chart

Total 31

Gauge

31.0

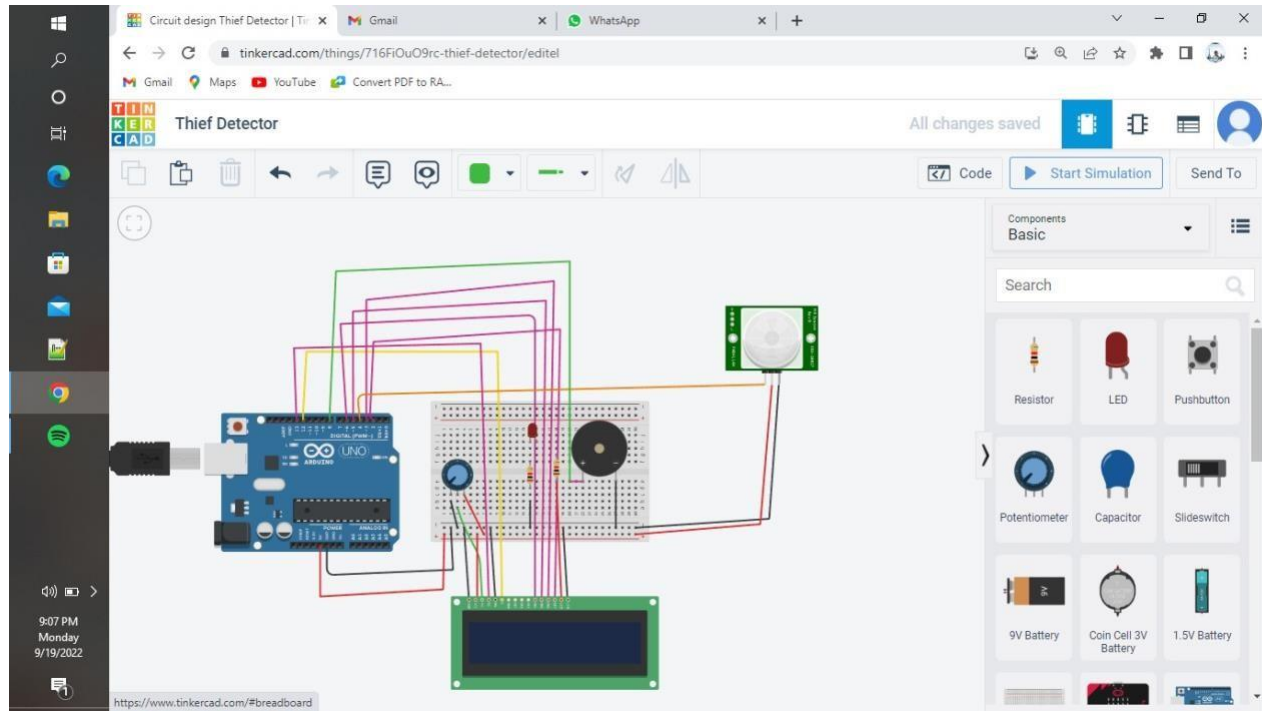
1 Simulation running

PROGRAM:

```
#include LiquidCrystal lcd(13,12,6,5,3,2);int led=7;
int PIR=4;
int buzzer=8;
int PIRstatus;
void setup()
{
  lcd.begin(16,2);
  pinMode(led, OUTPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(PIR, INPUT);
  lcd.clear();
}
void loop()
{
  PIRstatus=digitalRead(PIR); if
  (PIRstatus==HIGH)
  {
    lcd.clear();
  }
  void loop()
  {
    PIRstatus=digitalRead(PIR); if
    (PIRstatus==HIGH)
    {
      lcd.clear(); digitalWrite(led,
      HIGH); digitalWrite(buzzer,
      HIGH); digitalWrite(buzzer,
      HIGH); tone(buzzer, 300,
      10000);
      lcd.setCursor(0,1);
      lcd.print("ALERT");

      delay(7000);
      lcd.clear();
    }
    else
    {
      lcd.setCursor(0, 0);
      lcd.print("SAFE");
      digitalWrite(led, LOW);
      digitalWrite(buzzer, LOW);
    }
    delay(1000);
  }
}
```

Output:



PURPOSE:

Through the sensor and a connection to the Arduino, this will be utilized to detect animals or any other thing. Any animal or object will cause them to start alarming, and the LED will turn on.