# Verzeo IOT Major Project Submission By- Suryaansh Jaiswal Company - INTERNSPOOL

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#### Project review

I have made an IOT project to demonstrate IFTTT using google assistant for sending mail and for sending an SMS and I have Build a tinkercard based project for measuring soil moisture and temperature and displaying it on a lcd screen .I have created a thingspeak channel for my given react.

#### **Objective**

To use google assistant configure with IFTTT

#### Project-

Google assistant with mail.

#### Basic If Then structure

Edit Applet

Fight Palete

Say a simple phrase

Then

Update

( Back	* Settings
Major Project1  Edit title  by bestplayersury	
Connected	
Get notifications when this Applet is active	
Connected Sep 10, 2021 Last activity Sep 10, 2021 Run 1 time Polling Applets usually run within 1 hour Check now  Check now	
Archive	

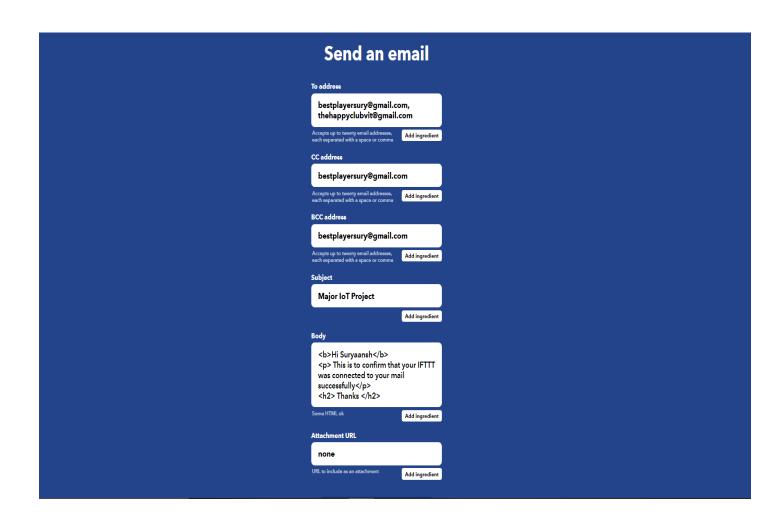
In If structure I give a command such as "Hey Google! Send a mail to me" or "Hey Google! okay send a mail to me".

The response we get is "Ok Suryaansh, here is your mail!"



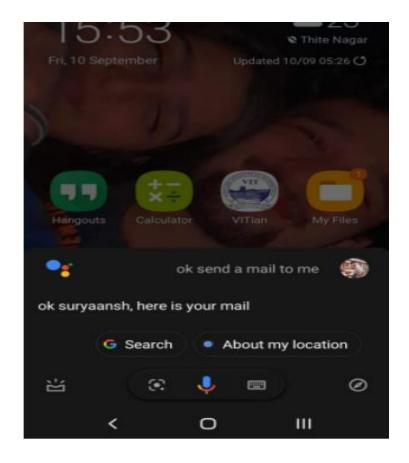
# In Then section I have added subject as "Major IoT Project" and some body

This is to confirm that your IFTTT was connected to your mail successfully
<h2> Thanks </h2>



#### Output -

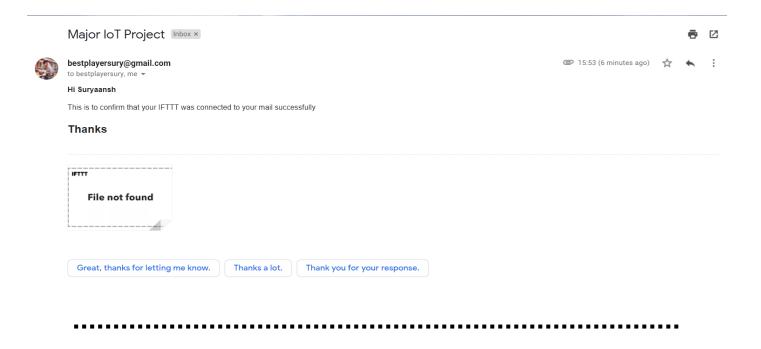
#### Command given from mobile



#### Received the mail in mail box



# Mail received by <a href="mailto:the-happyclubvit@gmail.com">the-happyclubvit@gmail.com</a> as well which was mentioned in the recipient name



# **Objective**

To use google assistant configure with IFTTT

# Project-

Google assistant with SMS

Sending a text message to different recipients from my number with IFTTT

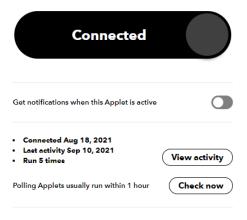


# **Edit Applet**





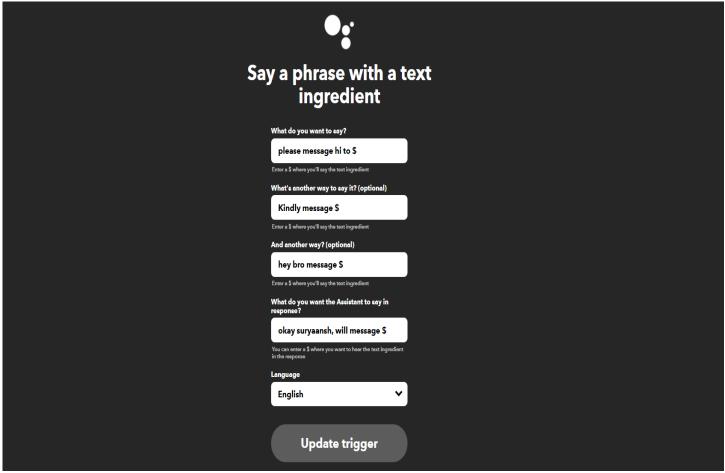




**Archive** 

In If structure I give a command such as "Hey Google! Kindly message \$Charvi\$" or "Hey Google! Please message hi to \$Charvi\$".

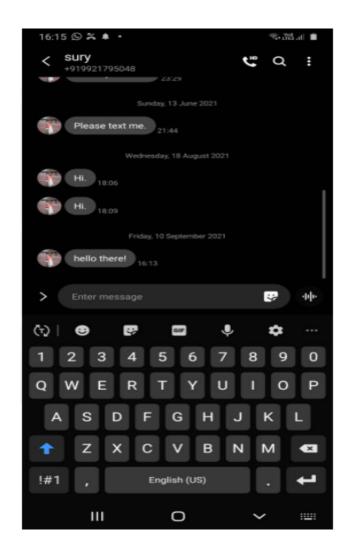
The response we get is "Ok Suryaansh, will message charvi"





# Output

#### We can see a "hello there!" In SMS



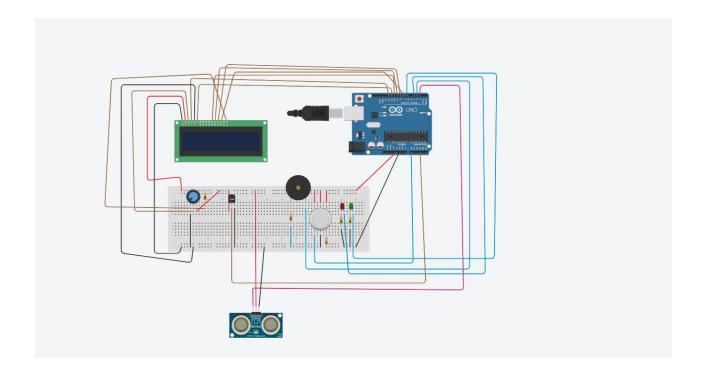
# Tinkercad project with 3 sensors and lcd.

#### **Objective**

Build a tinkercard based project for measuring soil moisture and temperature and displaying it on a lcd screen.

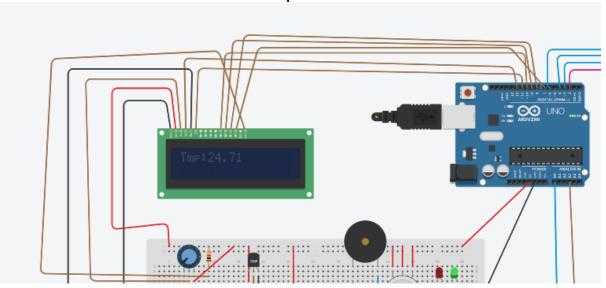
I have taken gas sensor, temperature sensor and ultrasonic sensor with Arduino and Icd. The Icd displays temp value, Distance from ultrasonic sensor and also whenever value from gas sensor exceeds threshold values Icd will print the same.

# **Circuit Diagram**

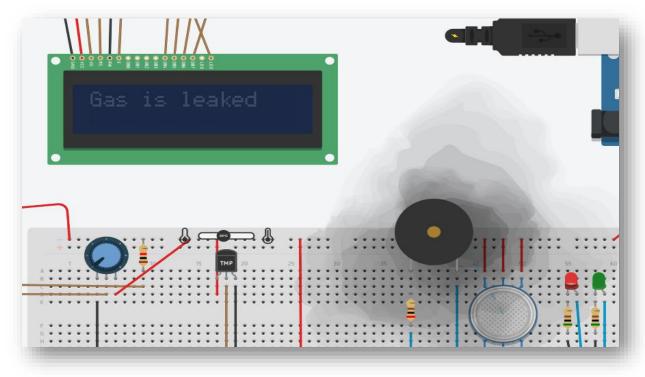


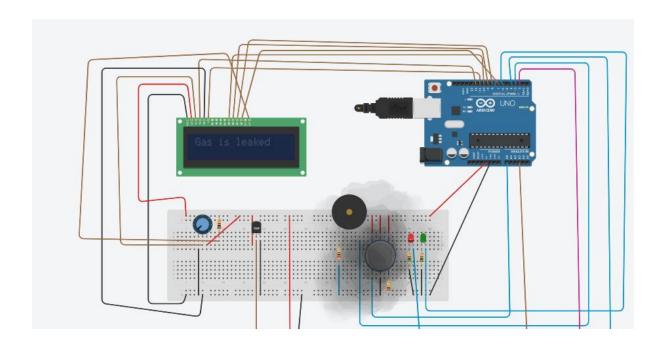
# Output-

Temp value

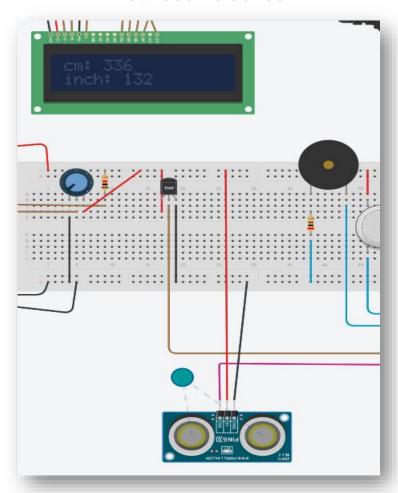


#### Gas sensor





#### Ultrasonic sensor



#### Tinkercad Link-

https://www.tinkercad.com/things/0vKgMbbbSIC-gas-and-temp-sensor/editel?sharecode=OtZPKuPK4ugXAEhn3EZZ24FJX63WuicNtBgAUfCanU

#### Code -

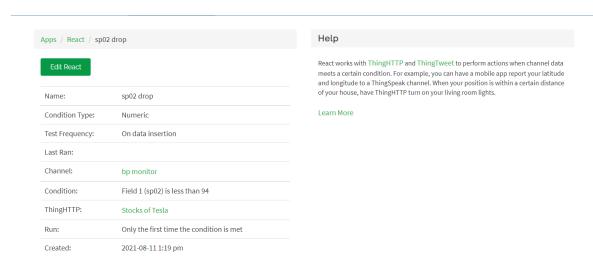
```
#include<LiquidCrystal.h>
int LED1 = 4;
int LED2 = 6;
int buzzer = 3;
int smoke = A0;
int sensorThreshold = 500;
LiquidCrystal lcd(12,11,10,9,8,7);
float value;
int tmp = A3;
int inches = 0;
int cm = 0;
void setup() {
 pinMode(LED1, OUTPUT);
 pinMode(LED2, OUTPUT);
 pinMode(buzzer, OUTPUT);
 pinMode(smoke, INPUT);
 pinMode(tmp,INPUT);
 lcd.begin(16, 2);
 pinMode(2, INPUT);
 Serial.begin(9600);
void loop() {
 int analogSensor = analogRead(smoke);
 if (analogSensor > sensorThreshold)
  digitalWrite(LED1, HIGH);
  digitalWrite(LED2, LOW);
  tone(buzzer, 1000, 350);
```

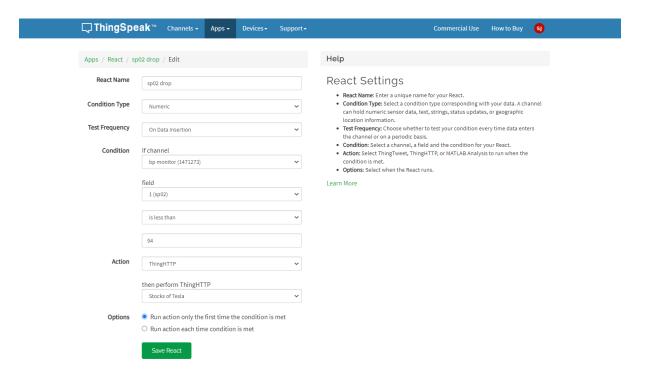
```
lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("Gas is leaked");
  delay(3000);
 }
 else
  digitalWrite(LED1, LOW);
  digitalWrite(LED2, HIGH);
  noTone(buzzer);
 }
 value = analogRead(tmp)*0.004882814;
 value = (value - 0.5) * 100.0;
 lcd.clear();
 lcd.setCursor(0,0);
 lcd.print("Tmp:");
 lcd.print(value);
 delay(3000);
 lcd.clear();
 cm = 0.01723 * readUltrasonicDistance(2);
 inches = (cm / 2.54);
 lcd.setCursor(0, 0);
 lcd.print("cm: ");
 lcd.setCursor(4,0);
 lcd.print(cm);
 lcd.setCursor(0,1);
 lcd.print("inch: ");
 lcd.setCursor(6,1);
 lcd.print(inches);
 delay(3000);
}
long readUltrasonicDistance(int pin)
{
 pinMode(pin, OUTPUT);
 digitalWrite(pin, LOW);
 delayMicroseconds(2);
 digitalWrite(pin, HIGH);
 delayMicroseconds(10);
 digitalWrite(pin, LOW);
```

```
pinMode(pin, INPUT);
}
```

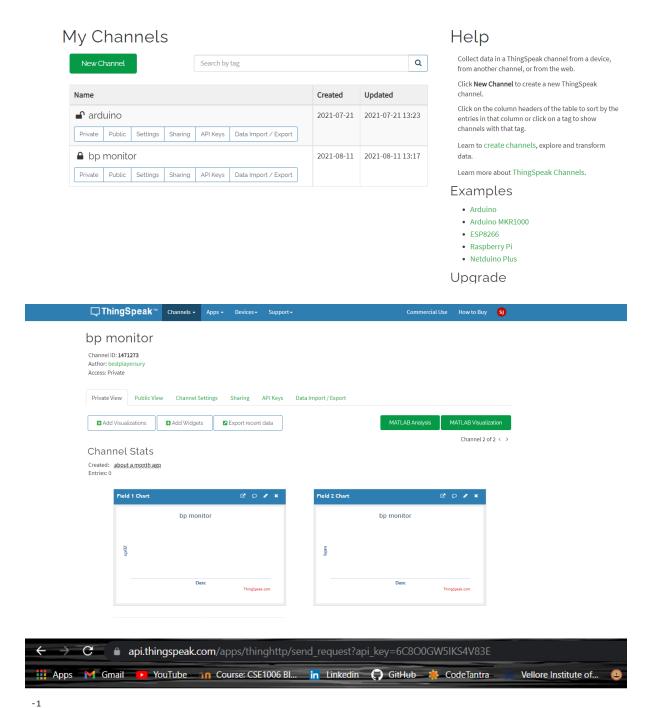
#### Thinspeak React

#### Created a React called as sp02 drop





#### Created a channel bp monitor



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# Thank You Suryaansh Jaiswal