Assignment date	6 th November 2022
Team ID	PNT2022TMID33827
Project Name	Smart Farmer-IOT Enabled
	SmartFarming
Maximum Marks	2 Marks

Question-1

Write code and connections in wokwi for ultrasonic. Whenever distance isless than 100 cms send

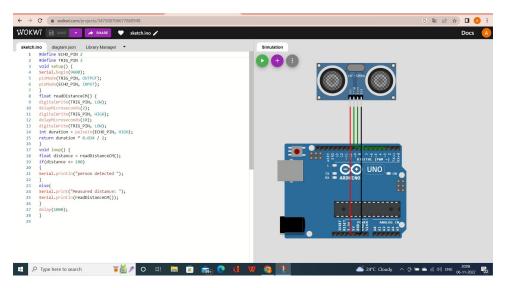
"alert" to ibm cloud and display in device recent events.

Solution:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "fkxdqs"
#define deviceType = "Arduino"
#define deviceId = "1200"
#define authMethod = "use-token-auth"
#define authToken = "00000000"
void setup() {
    Serial.begin(9600);
    pinMode(TRIG_PIN, OUTPUT);
    pinMode(ECHO_PIN, INPUT);
```

```
}
float readDistanceCM() {
digitalWrite(TRIG_PIN, LOW);
delayMicroseconds(2);
digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN, LOW);
int duration = pulseIn(ECHO_PIN, HIGH);
return duration * 0.034 / 2;}
void loop() {
float distance =
readDistanceCM();
if(distance <= 100)
Serial.println("person detected ");
}
else{
Serial.print("Measured
distance: ");
Serial.println(readDistanceC
```

```
M());
}
delay(1000);
}
```



https://wokwi.com/projects/347588766677860948