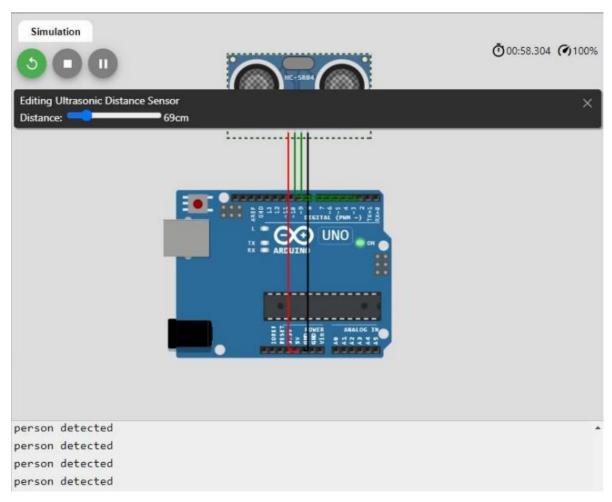
ASSIGNMENT-4

TITLE: Smart Farmer - IOT Enabled Smart Farming Application

Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organisation = "a09qmv"
#define deviceType = "device1"
#define deviceId ="1234"
#define authMethod ="use-token-auth"
#define authToken ="12345678"
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(readDistanceCM());
}
delay(1000);
}
```



IBM Cloud

Device Recent Events

