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## **Assignment-IV**

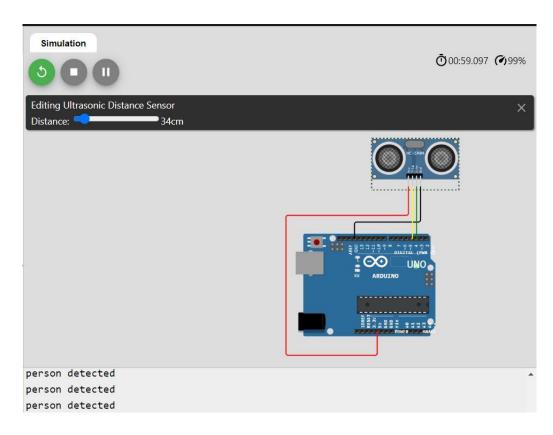
Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

## Code:

```
#define ECHO PIN 2
#define TRIG PIN 3
#define ORG = "5q4061"
#define DEVICE TYPE = "US Sensor"
#define Device_Id = "Y24V19_sensor"
#define AUTH METHOD = "use-token-auth"
#define AUTH_TOKEN = "oW&W6IEIe2Zykab6St"
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);
}</pre>
```

## Simulation:



Wokwi link: https://wokwi.com/projects/346774428015657554

## **IBM Cloud:**

