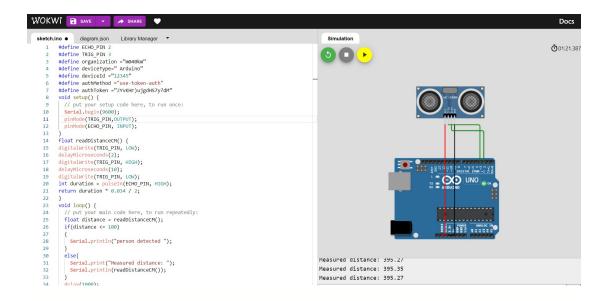
Assignment-4

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

Code:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization ="m040km"
#define deviceType=" Arduino"
#define deviceId ="12345"
#define authMethod ="use-token-auth"
#define authToken ="2YvKHr)ujgdHS7y?dM"
void setup() {
 // put your setup code here, to run once:
 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() {
 // put your main code here, to run repeatedly:
 float distance = readDistanceCM();
  if(distance <= 100)</pre>
   Serial.println("person detected ");
  }
  else{
   Serial.print("Measured distance: ");
   Serial.println(readDistanceCM());
  }
  delay(1000);
}
```

Wokwi: https://wokwi.com/projects/347222429060301394



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