Assignment -4

Assignment Date	6 [™] NOVEMBER 2022
Student Name	R.VENKATACHALAM
Team ID	PNT2022TMID25688
Project Name	Project-Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Question-1:

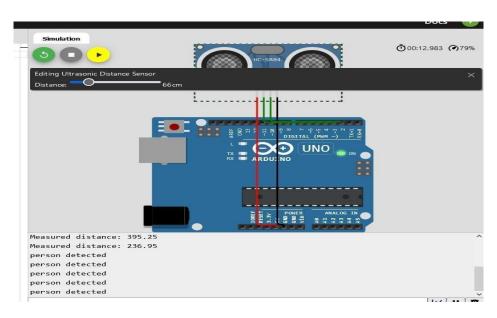
Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cms send "alert" to ibm cloud and display in device recent events.

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;
}

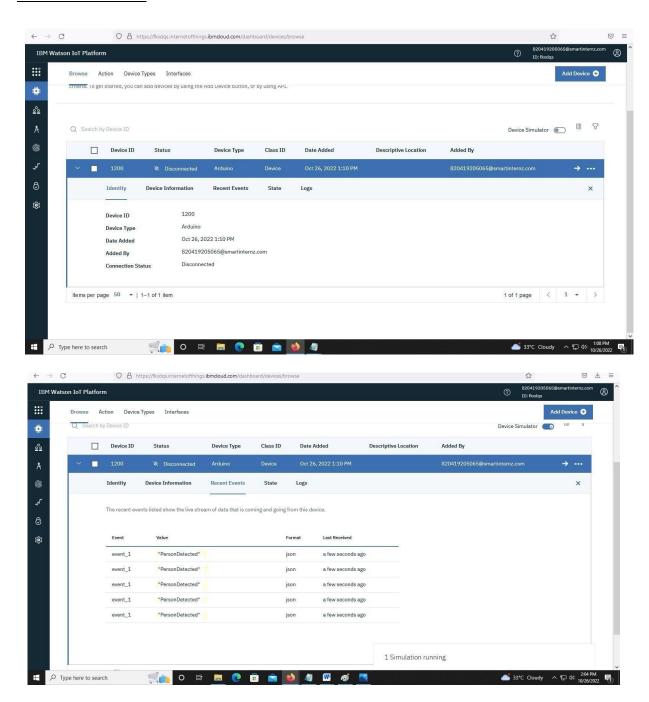
void loop() { float distance = readDistanceCM();
if(distance <=
100)
{
    Serial.println("person detected ");
}
else{
Serial.print("Measured distance: ");
Serial.println(readDistanceCM());
}
delay(1000);
}</pre>
```



Wokwi Link: https://wokwi.com/projects/346567349532361298

IBM Cloud

Device Recent Events



WOWKI EXECUTION PART WITH ANOTHER CODE:

