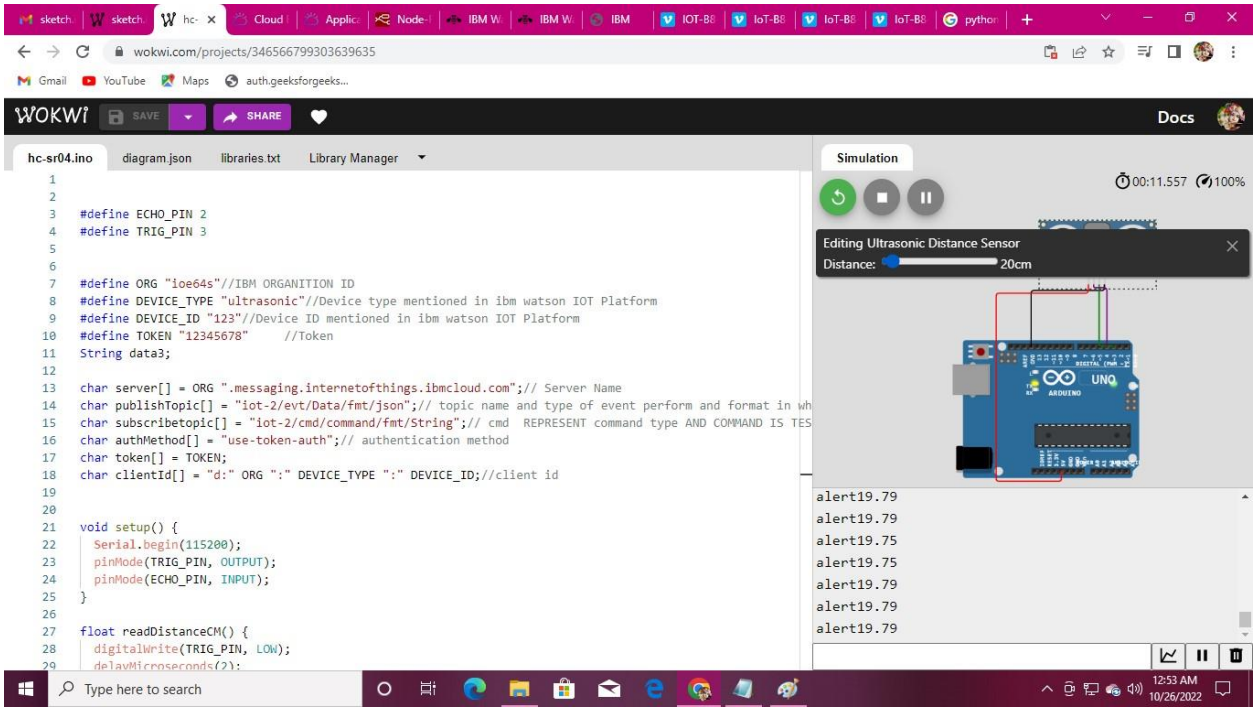
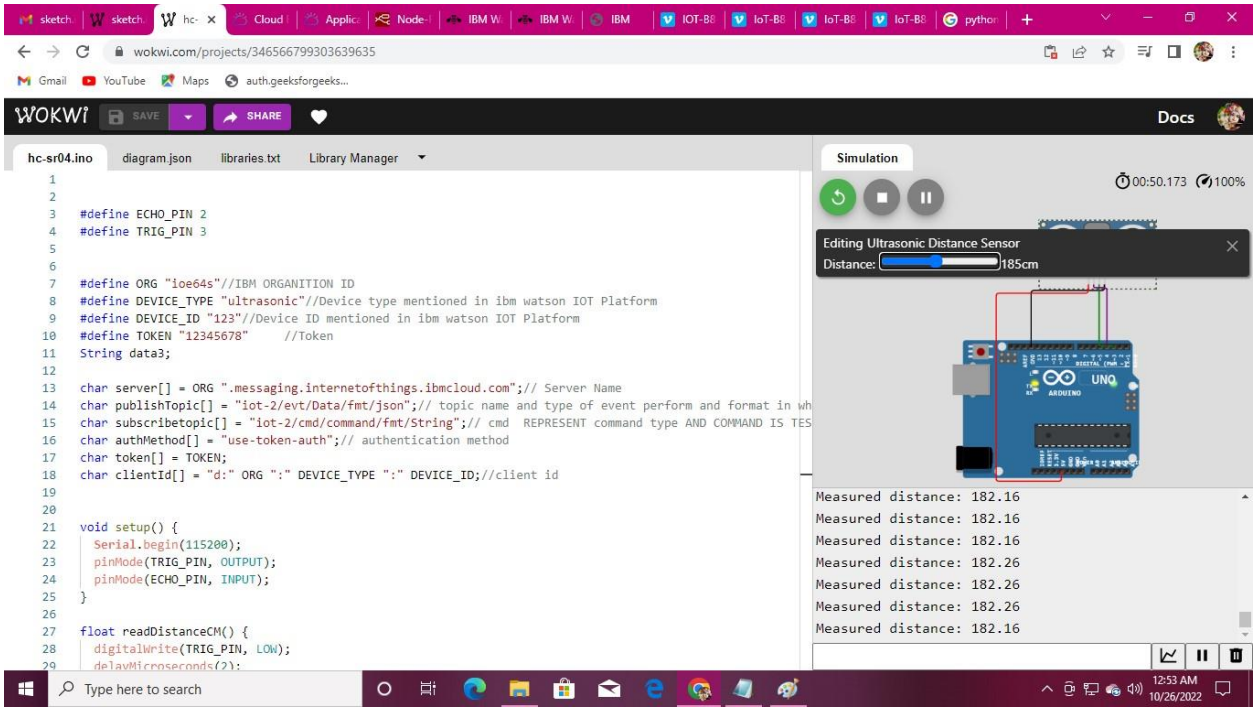
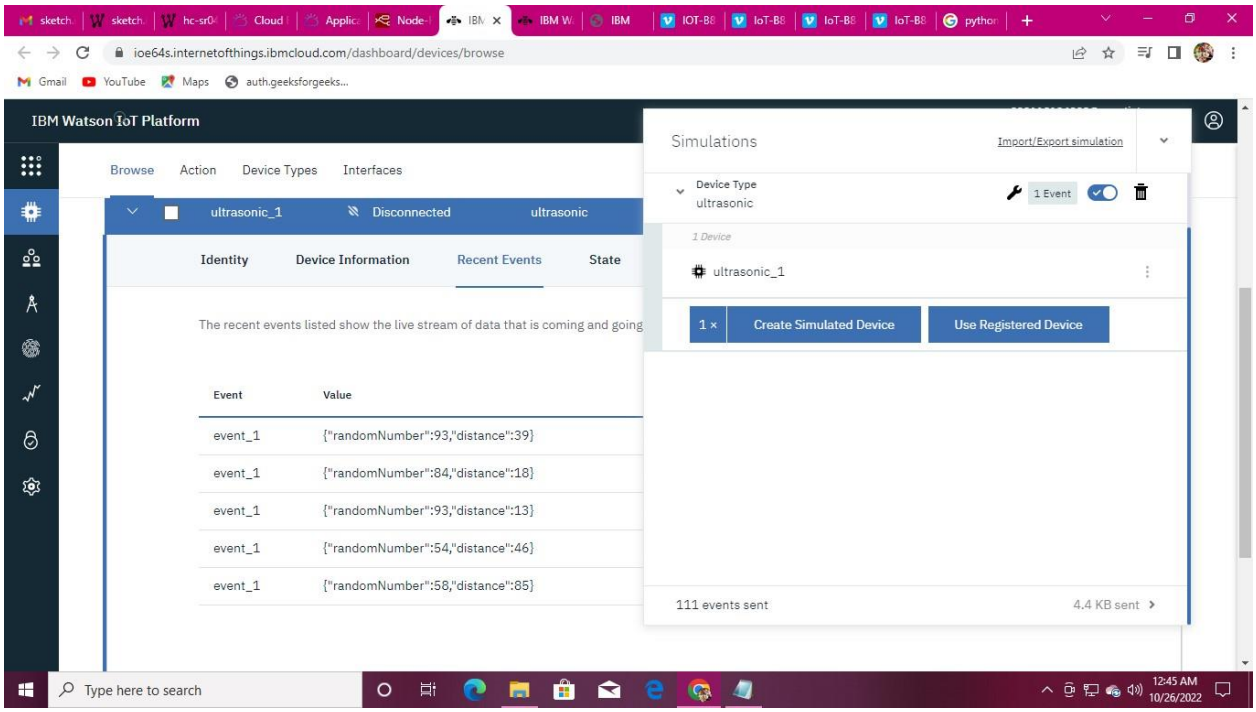
Assignment 4

Wokwi:




wokwi.com/projects/346566799303639635
WOKWI
SAVE
SHARE
Docs
hc-sr04.ino
diagram.json
libraries.txt
Library Manager
#define ECHO_PIN 2
#define TRIG_PIN 3
#define ORG "ioe64s"//IBM ORGANITION ID
#define DEVICE_TYPE "ultrasonic"//Device type mentioned in ibm watson IOT Platform
#define DEVICE_ID "123"//Device ID mentioned in ibm watson IOT Platform
#define TOKEN "12345678" //Token
String data3;
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of event perform and format in wh
char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd REPRESENT command type AND COMMAND IS TES
char authMethod[] = "use-token-auth";// authentication method
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id
void setup() {
Serial.begin(115200);
pinMode(TRIG_PIN, OUTPUT);
pinMode(ECHO_PIN, INPUT);
}
float readDistanceCM() {
digitalWrite(TRIG_PIN, LOW);
Simulation
00:50.173
100%
Editing Ultrasonic Distance Sensor
Distance:
185cm
Measured distance: 182.16
Measured distance: 182.16
Measured distance: 182.16
Measured distance: 182.26
Measured distance: 182.26
Measured distance: 182.26
Measured distance: 182.16
Type here to search
12:53 AM
10/26/2022

Ibm cloud:


ioe64s.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
ultrasonic_1
Disconnected
ultrasonic
Identity
Device Information
Recent Events
State
The recent events listed show the live stream of data that is coming and going
Event
Value
event_1
{"randomNumber":93,"distance":39}
event_1
{"randomNumber":84,"distance":18}
event_1
{"randomNumber":93,"distance":13}
event_1
{"randomNumber":54,"distance":46}
event_1
{"randomNumber":58,"distance":85}
Simulations
Import/Export simulation
Device Type
ultrasonic
1 Event
1 Device
ultrasonic_1
1 ×
Create Simulated Device
Use Registered Device
111 events sent
4.4 KB sent
Type here to search
12:45 AM
10/26/2022