ASSIGNMENT 04

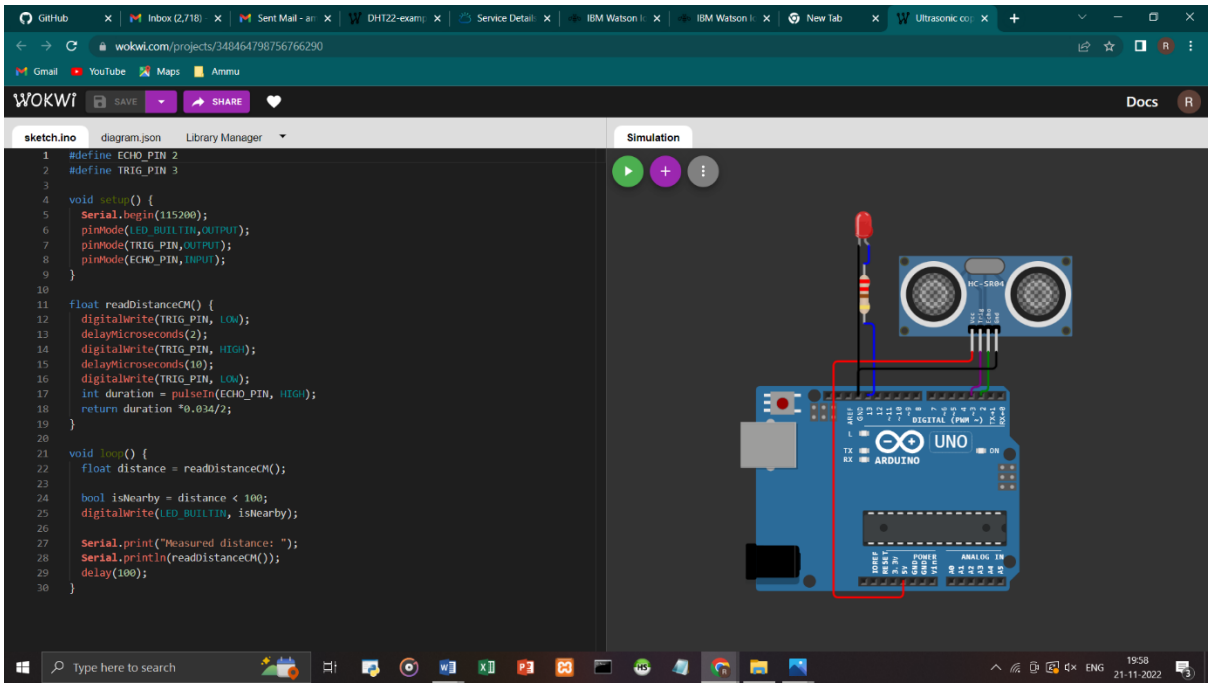
https://wokwi.com/projects/348464798756766290

Python code:

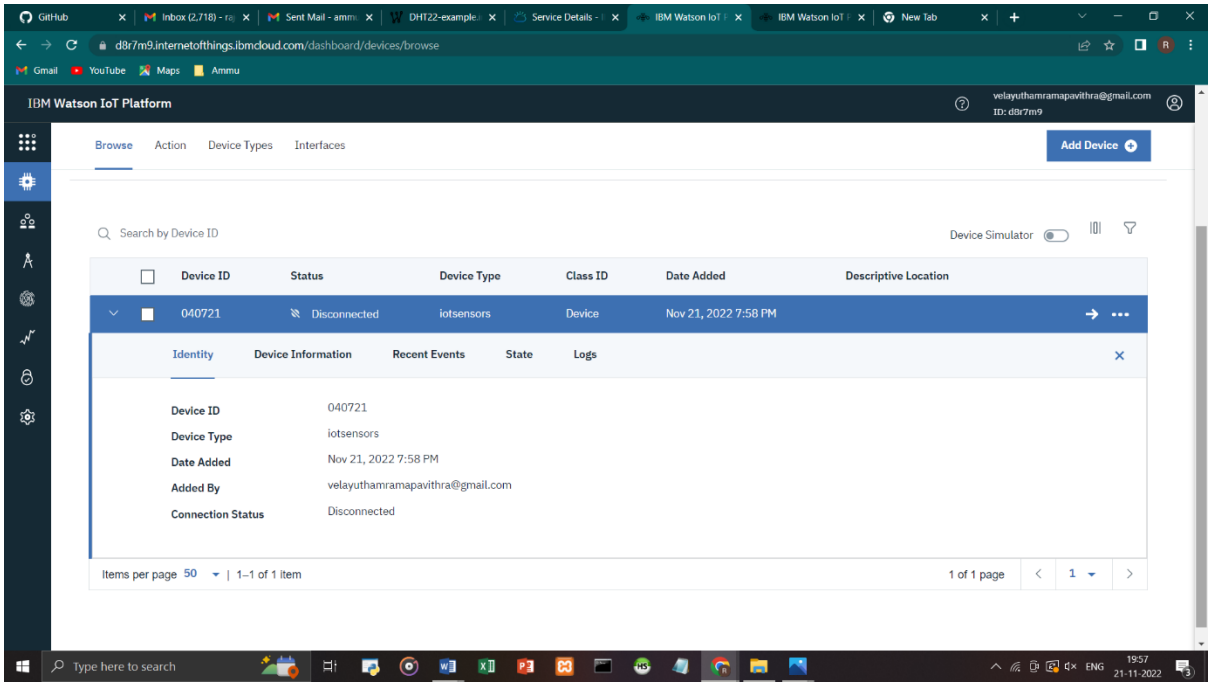
```
#define ECHO_PIN2
#define TRIG_PIN3
#define organization = "pb6xw8"
#define deviceType = "abcd"
#define deviceId = "12"
#define authMethod = "token"
#define authToken = "12345678"

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;
```

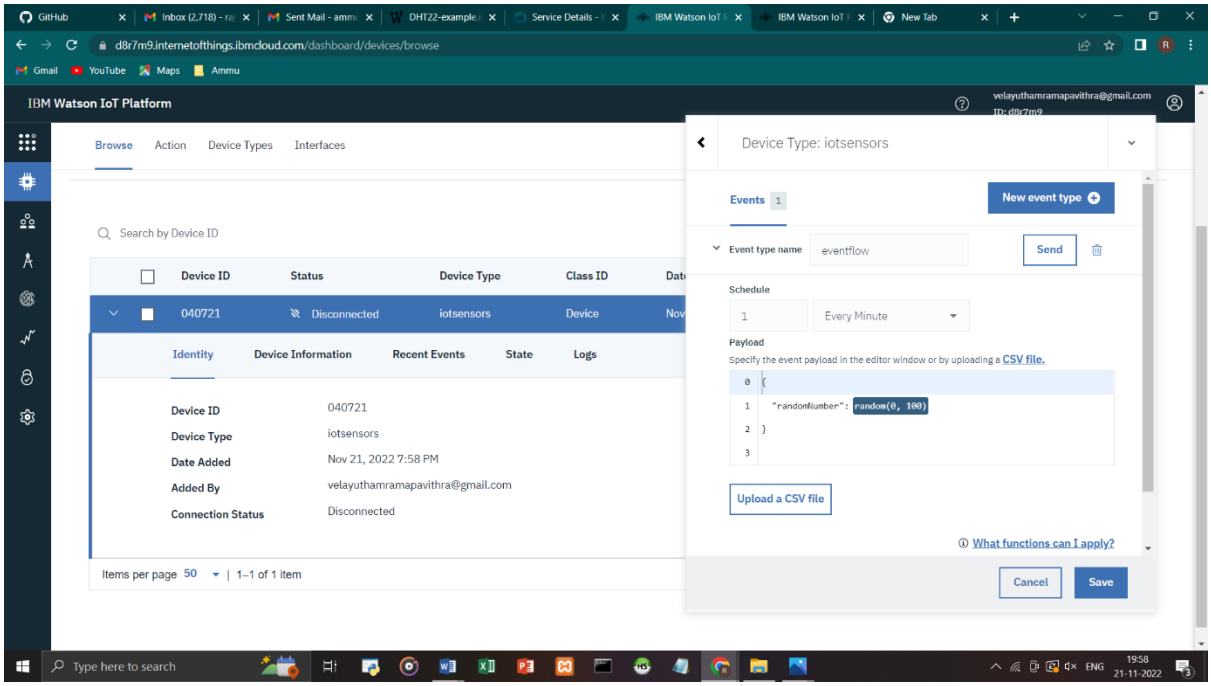
```
}

void loop(){
float distance=readDistanceCM();

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

Simulation:



IBM WATSON CLOUD:


IBM Watson IoT Platform
velayuthamramapavithra@gmail.com
ID: d8r7m9
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
040721
Disconnected
iotsensors
Device
Nov 21, 2022 7:58 PM
Identity
Device Information
Recent Events
State
Logs
Device ID
040721
Device Type
iotsensors
Date Added
Nov 21, 2022 7:58 PM
Added By
velayuthamramapavithra@gmail.com
Connection Status
Disconnected
Items per page 50
1–1 of 1 item
1 of 1 page
1
Type here to search
ENG
19:57
21-11-2022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Browse
Action
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iotsensors
Device
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Device Information
Recent Events
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Logs
Device ID
040721
Device Type
iotsensors
Date Added
Nov 21, 2022 7:58 PM
Added By
velayuthamramapavithra@gmail.com
Connection Status
Disconnected
Items per page 50
1–1 of 1 item
Device Type: iotsensors
Events 1
New event type
Event type name
eventflow
Send
Schedule
1
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"randomNumber": random(0, 100)
}
Upload a CSV file
What functions can I apply?
Cancel
Save
Type here to search
ENG
19:58
21-11-2022