ASSIGNMENT-4

NAME: R .Ajay

Qn: 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.**

Upload document with wokwi share link and images of IBM cloud

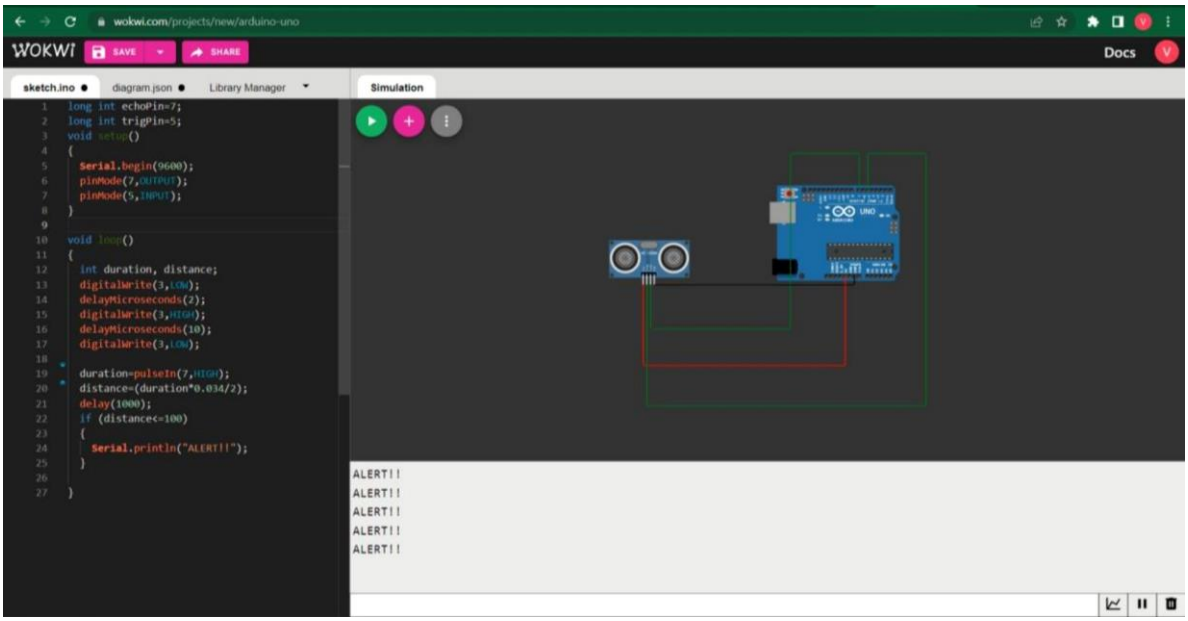
LINK:

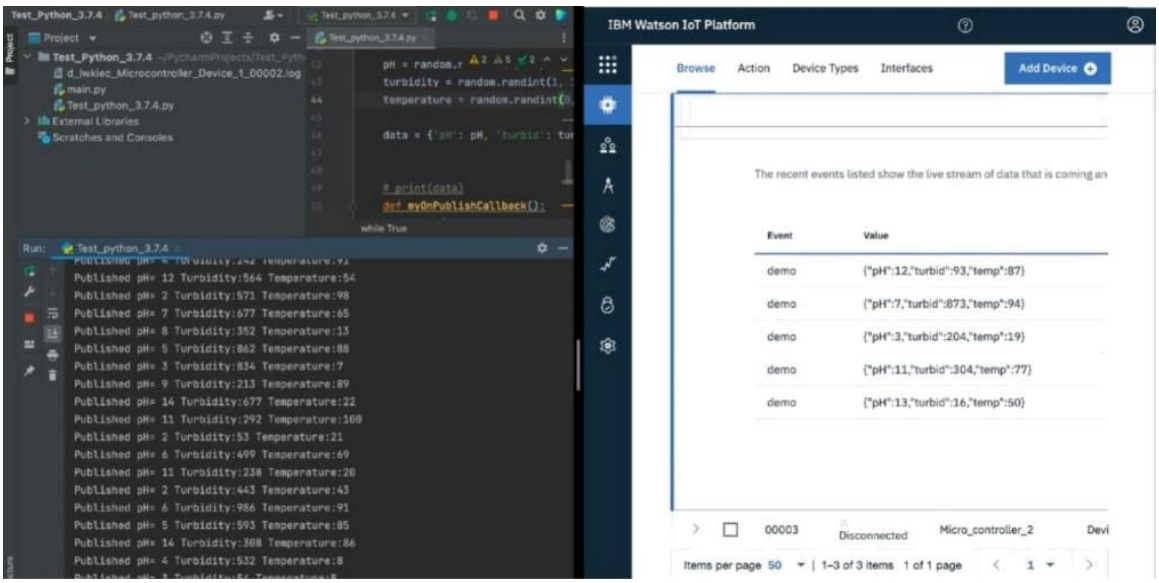
https://wokwi.com/projects/new/arduino-uno

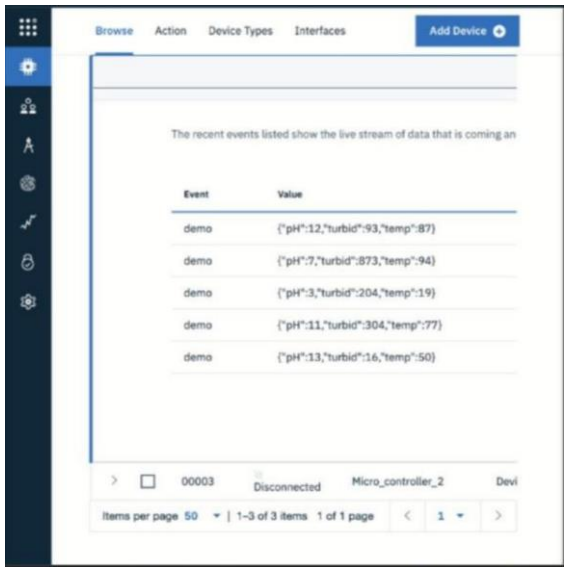
CODE:

```
long int echoPin=7;
long int trigPin=5;
void setup()

  Serial.begin(9600);
  pinMode(7,OUTPUT);
  pinMode(5,INPUT);


void loop()

  int duration, distance;
  digitalWrite(3,LOW);
  delayMicroseconds(2);
  digitalWrite(3,HIGH);
  delayMicroseconds(10);
  digitalWrite(3,LOW);

  duration=pulseIn(7,HIGH);
  distance=(duration*0.034/2);
  delay(1000);
  if (distance<=100)

    Serial.println("ALERT!!”);
```

SIMULATIONS:






Browse
Action
Device Types
Interfaces
Add Device
The recent events listed show the live stream of data that is coming an
Event
Value
demo
{"pH":12,"turbid":93,"temp":87}
demo
{"pH":7,"turbid":873,"temp":94}
demo
{"pH":3,"turbid":204,"temp":19}
demo
{"pH":11,"turbid":304,"temp":77}
demo
{"pH":13,"turbid":16,"temp":50}
00003
Disconnected
Micro_controller_2
Devi
Items per page 50
1–3 of 3 items
1 of 1 page
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