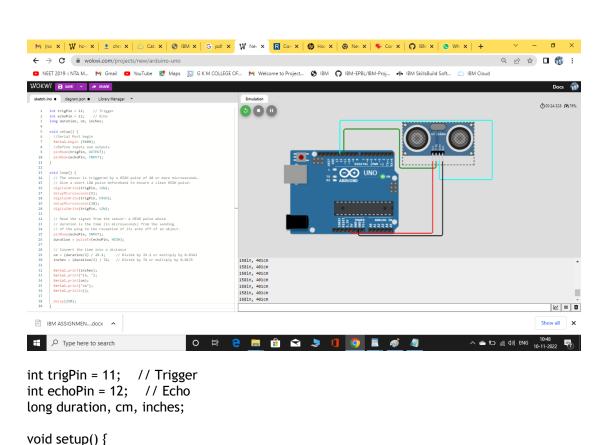
ASSIGNMENT 4

AssignmentDate	10 NOVEMBER		
	2022		
StudentName	SHARVANI G		
	HEGDE		
StudentRollNumber	410819106004		

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



//Serial Port begin
Serial.begin (9600);

//Define inputs and outputs pinMode(trigPin, OUTPUT); pinMode(echoPin, INPUT);

```
}
void loop() {
 // The sensor is triggered by a HIGH pulse of 10 or more microseconds.
 // Give a short LOW pulse beforehand to ensure a clean HIGH pulse:
 digitalWrite(trigPin, LOW);
 delayMicroseconds(5);
 digitalWrite(trigPin, HIGH);
 delayMicroseconds(10);
 digitalWrite(trigPin, LOW);
 // Read the signal from the sensor: a HIGH pulse whose
 // duration is the time (in microseconds) from the sending
 // of the ping to the reception of its echo off of an object.
 pinMode(echoPin, INPUT);
 duration = pulseIn(echoPin, HIGH);
 // Convert the time into a distance
 cm = (duration/2) / 29.1; // Divide by 29.1 or multiply by 0.0343
 inches = (duration/2) / 74; // Divide by 74 or multiply by 0.0135
 Serial.print(inches);
 Serial.print("in, ");
 Serial.print(cm);
 Serial.print("cm");
 Serial.println();
 delay(250);
```