## Assignment -4

Assignment Date	04 November 2022
Student Name	Mr. S. Shamkumar
Student Roll Number	510119106010
Maximum Marks	2 Marks

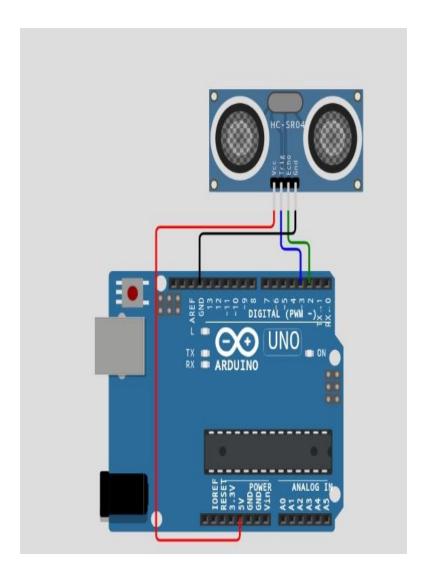
## Question:

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

## <u>Code:(C++</u>)

```
#define PIN_TRIG 3
#define PIN_ECHO 2
void setup() {
Serial.begin(115200);
 pinMode(PIN_TRIG, OUTPUT);
 pinMode(PIN_ECHO, INPUT);
}
void loop() {
// Start a new measurement:
 digitalWrite(PIN_TRIG, HIGH);
 delayMicroseconds(10);
 digitalWrite(PIN_TRIG, LOW);
// Read the result:
int duration = pulseIn(PIN_ECHO, HIGH);
Serial.print("Distance in CM: ");
Serial.println(duration / 58);
Serial.print("Distance in inches: ");
 Serial.println(duration / 148);
delay(1000);
}
```

## Circuit Diagram:



Wokwi link: https://wokwi.com/projects/347374704968860244