ASSIGNMENT – 4

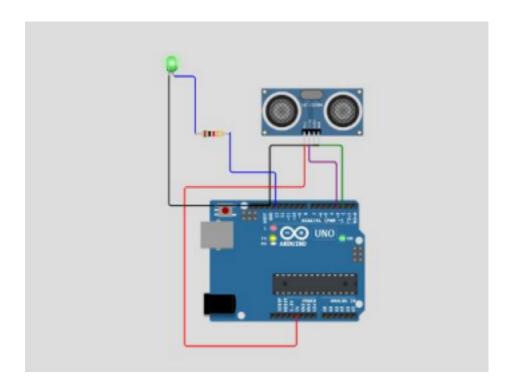
Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events. Upload document with wokwi share link and images of IBM cloud

CODE:

```
# define ECHO PIN 2
# define TRIG PIN 3
void setup ()
 {
Serial.begin(115200);
pinMode(LED BUILTIN, OUTPUT);
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();
 bool isNearby = distance < 100;</pre>
digitalWrite(LED BUILTIN, isNearby);
Serial.print("Measured distance:");
```

```
Serial.println(readDistanceCM());
delay(100);
}
```

OUTPUT:



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