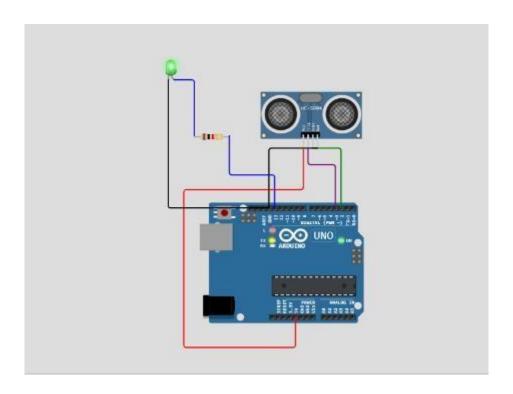
## **ASSIGNMENT – 4**

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);
 }
```

## **OUT PUT:**



 $\textbf{Reference:} \underline{\texttt{https://wokwi.com/projects/346659942205227602}}$ 

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