ASSIGNMENT 4

| Date | 27 October 2022 |
|----------------|---|
| Team ID | PNT2022TMID14476 |
| Project Name | Real time River water Quality Monitoring and Control system |
| Name & Roll No | Mathuligha P 2019PITEC134 |

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

PROGRAM CODE:

```
#define echopin 7
#define trigpin 8
long duration;
int distance;
void setup(){
  pinMode(trigpin,OUTPUT);
  pinMode(echopin,INPUT);
  Serial.begin(9600);
}
void loop(){
  digitalWrite(trigpin,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigpin, LOW);
  duration=pulseIn(echopin,HIGH);
  distance = duration*0.034/2;
  Serial.print(" MEASURED DISTANCE : ");
  Serial.println(distance);
  if (distance < 100)</pre>
  Serial.print(" ALERT ");
  Serial.println();
  delay(10000);
}
```

OUTPUT:

