## **ASSIGNMENT – 4**

## ULTRASONIC SENSOR SIMULATION IN WOKWI

Date	05.11.2022
Student name	DELIN REXY R
Student name	DELIVELAT K
Student roll number	312419106022
Maximum marks	2 marks

## **QUESTION:**

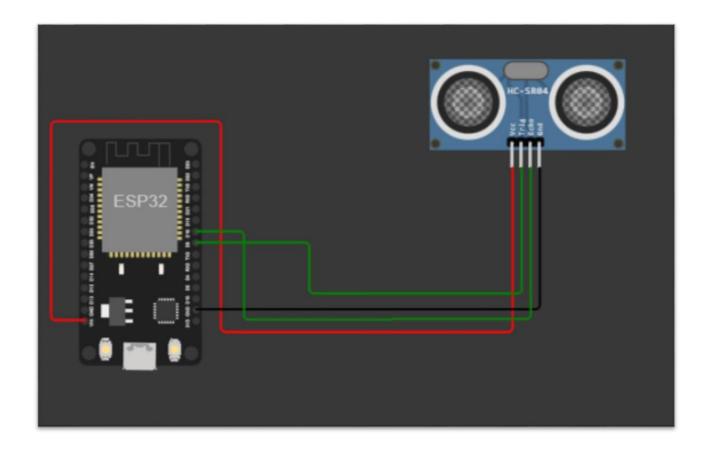
Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events

#### **CODE Screenshot:**

```
long int echoPin=2;
long int trigPin=3;
long duration;
int distance;
void setup()
 Serial.begin(9600);
 pinMode(3,OUTPUT);
 pinMode(2,INPUT);
void loop()
 digitalWrite(3,LOW);
 delayMicroseconds(2);
 digitalWrite(3,HIGH);
 delayMicroseconds(10);
 digitalWrite(3,LOW);
duration=pulseIn(2,HIGH);
 distance=(duration*0.034/2);
 delay(1000);
 if (distance<=100)
  Serial.println("ALERT, THE DISTANCE IS LESS THAN 100CM");
```

Link: https://wokwi.com/projects/347553790873829972

# **CIRCUIT DIAGRAM:**



# **WOKWI OUTPUT:**

ALERT, THE DISTANCE IS LESS THAN 100CM ALERT, THE DISTANCE IS LESS THAN 100CM ALERT, THE DISTANCE IS LESS THAN 100CM