Assignment-IV

Assignment Date	25 October 2022
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QUESTION:

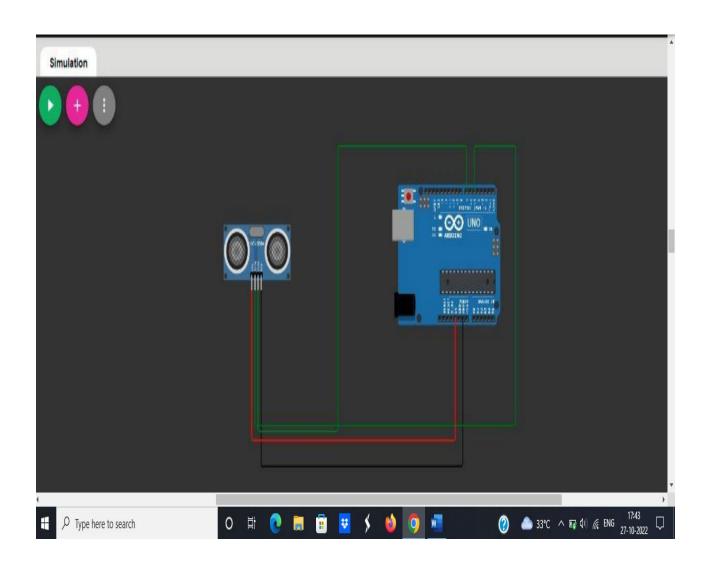
Write Code and connections in wokwi for ultrasonic sensor. Whatever distance is less than 100cms send "Alert" to ibm cloud and display in device recent events.

CODING:

```
long int echoPin=7;
long int trigPin=5;
void setup()
{
Serial.begin(9600);
pinMode(7,OUTPUT);
pinMode(5,INPUT);
void loop() {
int duration, distance; digitalWrite(3,LOW);
delayMicroseconds(2);
digitalWrite(3,HIGH);
delayMicroseconds(10);
digitalWrite(3,LOW);
duration=pulseIn(7,HIGH);
distance=(duration*0.034/2);
delay(1000);
```

```
if (distance<=100)
{
Serial.println("ALERT!!");
}</pre>
```

SIMULATION:



Distance less than 100cms send "Alert"

