ASSIGNMENT – 4

Team Leader	Ranjith E
Register Number	421819106014
Date	21/09/2022
Team ID	PNT2022TMID38992
Project Name	lot Based Safety Gadget For Child Safety
	Monitoring
Maximum Marks	2 Marks

OBJECTIVE:

To develop a code and make connections in wokwi for ultrasonic sensor, whenever distance is less than 100 cm send "Alert" to IBM cloud and display in device recent events.

CODE:

```
t1 = micros();
while (digitalRead(ECHO_PIN) == 1);
t2 = micros();
pulse_width + t2 - t1;

cm = pulse_width / 58;
inches = pulse_width / 148.0;
if (pulse_width > MAX_DIST) {

Serial.printin("Out of range");
} else
{

Serial.print("The Measured Distance in cm: "); Serial.println(cm);

if (cm < 180)
{

Serial.printin("Alert! Object detected");
}
}

delay(1808);
}</pre>
```

SIMULATION

