

Date	30 October 2022
Team ID	PNT2022TMID07810
Project Name	IoT Based Gadget child safety monitoring and notification
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ASSIGNMENT-4

Write code and connection in wowki for ultrasonic sensor. When ever distance is less than 100 cm send the alert to IBM cloud and display in device recent event.

```
#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;
```

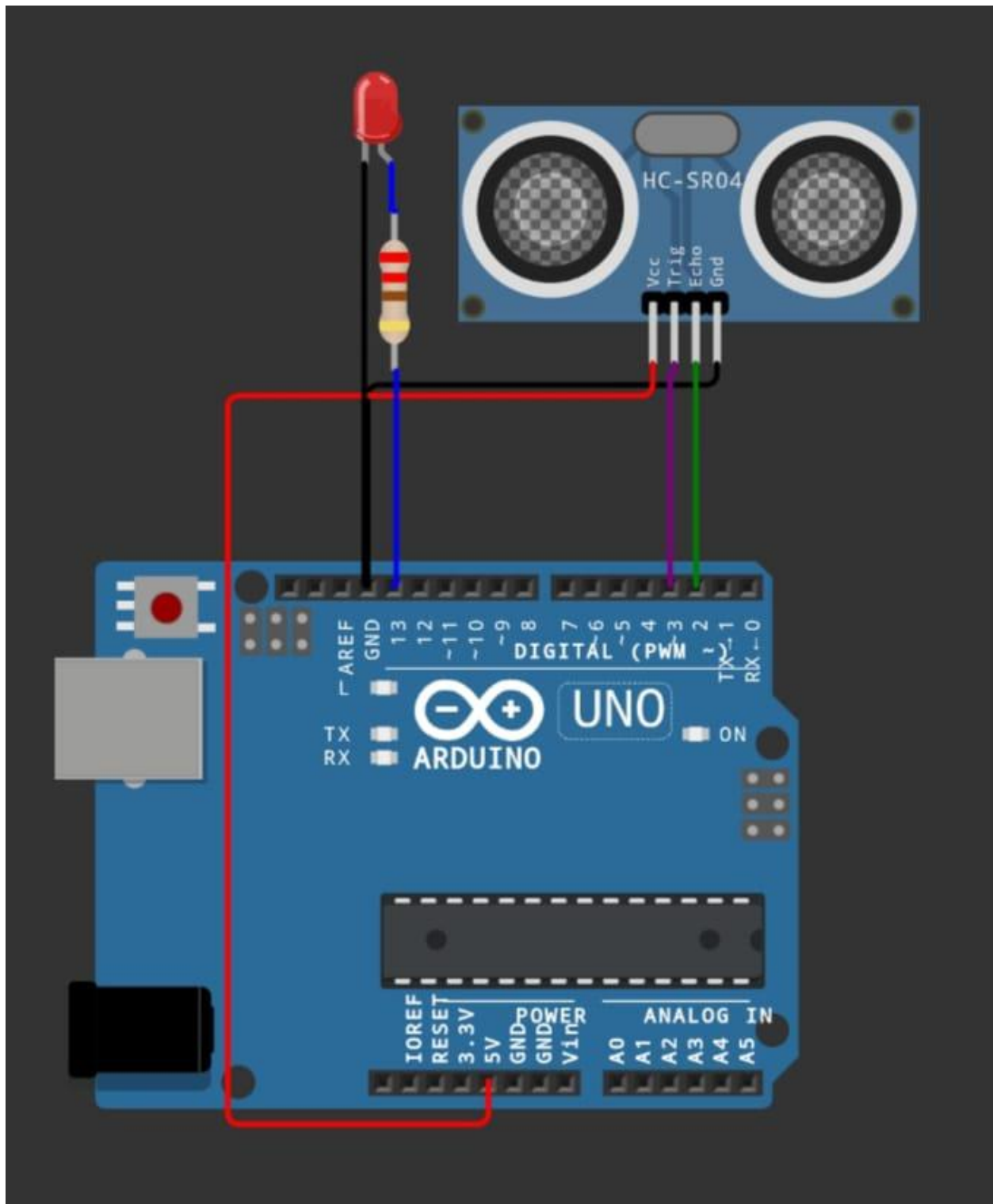
```
digitalWrite(LED_BUILTIN, isNearby);
```

```
Serial.print("Measured distance: ");
```

```
Serial.println(readDistanceCM());
```

```
delay(100);
```

```
}
```



LINK:<https://wokwi.com/projects/290056311044833800>