TEAM ID : PNT2022TMID31006

ASSIGNMENT - IV

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. Upload document with wokwi share link and images of IBM cloud

Link:

https://wokwi.com/projects/346148463383151186

Code:

```
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!!");
 }

}
```