SWARNASHRI.S

ASSIGNMENT 4

Question-1:

Write code and connections in wokwi for ultrasonic. Whenever distance is less than 100 cm's send

"alert" to IBM cloud and display in device recent events.

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization ="yqf4pt"
#define deviceType="ARDUINO"
#define deviceId ="23245"
#define authMethod ="use-token-auth"
#define authToken = "987654321"
void setup() {
Serial.begin(9600);
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();
if(distance <= 100)
Serial.println("person detected ");
}
else{
Serial.print("Measured distance: ");
Serial.println(readDistanceCM());
delay(1000);
}
```

WOKWI PROJECT LINK: https://wokwi.com/projects/347302235339752019

OUTPUT:







