ASSIGNMENT – 4

Write a code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100 cms "send" alert to IBM Cloud and display in device recent events. Code:

Const int TRIG\_PIN=7;

Const int ECHO\_PIN=8;

Const unsigned int MAX-DIST=23200;

Void setup(){

Pin Mode(TRIG-PIN,OUTPUT);

Digital Write(TRIG-PIN,LOW); pinMode(ECHO\_PIN,INPUT);

Serial.begin(9600);

}

Void loop(){

Unsigned long t1;

Unsigned long t2;

Unsigned long pulse\_width;

float cm;

float inches;

digitalWrite(TRIG\_PIN,HIGH);

delayMicroseconds(10);

digitalWrite(TRIG\_PIN,LOW); While(digitalRead(ECHO\_PIN)==0);

t1=micros();

While(digitalRead(ECHO\_PIN)==1);

t2=micros();

pulse\_width=t2-t1;

cm=pulse\_Width/58;

inches=pulse\_width/148.0;

if(cm<100){

Serial.println(“Alert!”);

}

}

Serial.print(“\*\*\*\*\*\*\*\*\*\*\*\*\*”);

}

Delay(1000);

}

