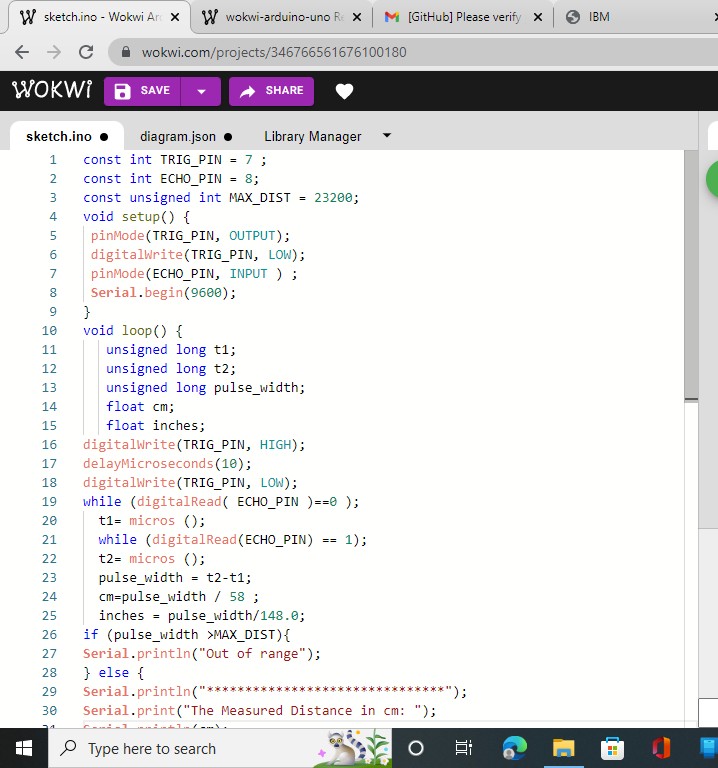
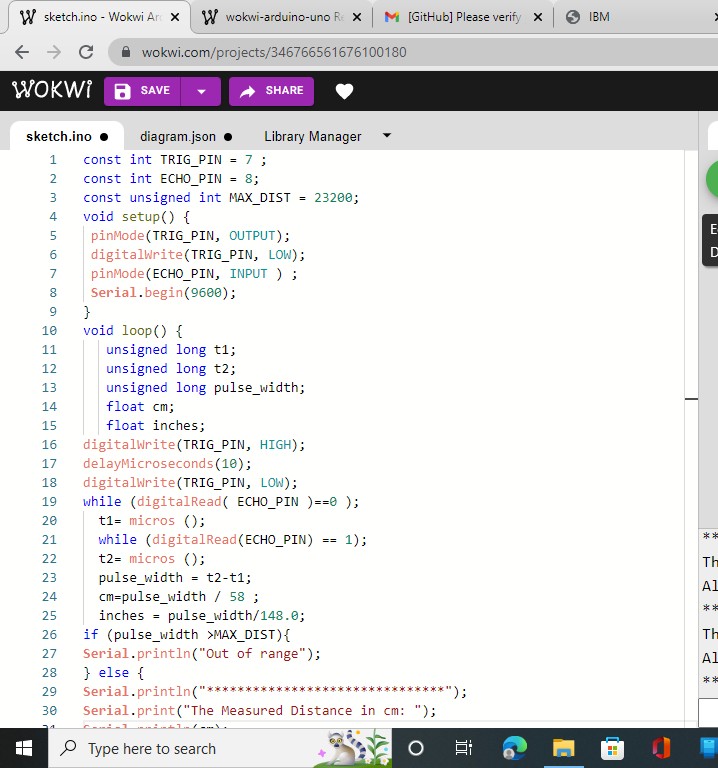
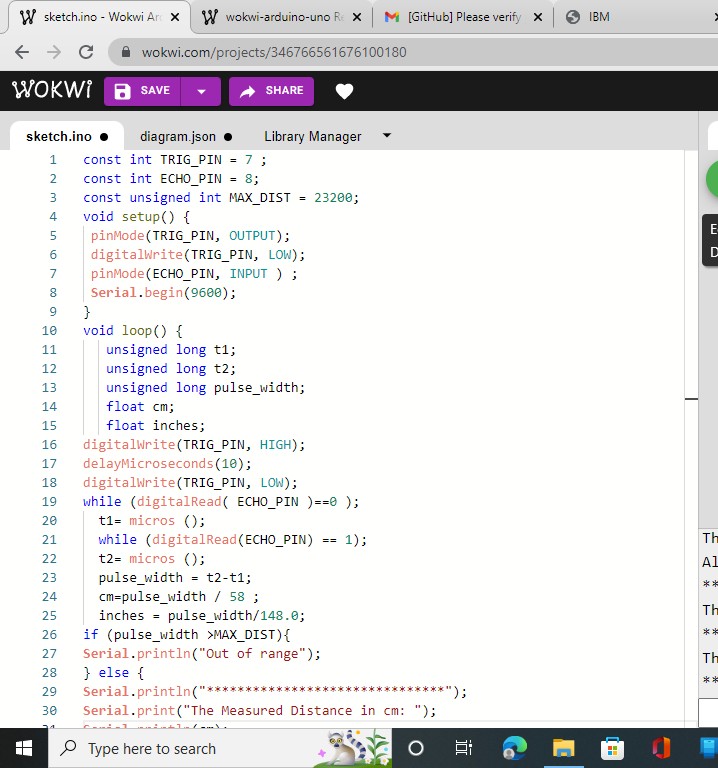
# CONNECTION IN WOKWI FOR THE

**ULTRASONIC SENSOR**







# CODING:

const int TRIG\_PIN = 7 ; const int ECHO\_PIN = 8;

const unsigned int MAX\_DIST = 23200;

void setup() { pinMode(TRIG\_PIN, OUTPUT);

digitalWrite(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 (pulse\_width >MAX\_DIST){

**Serial**.println("Out of range");

} else { **Serial**.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"); **Serial**.print("The Measured Distance in cm: ");

**Serial**.println(cm); if( cm < 100 ){

**Serial**.println("Alert!!");

}

**Serial**.print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

delay(1000);

}