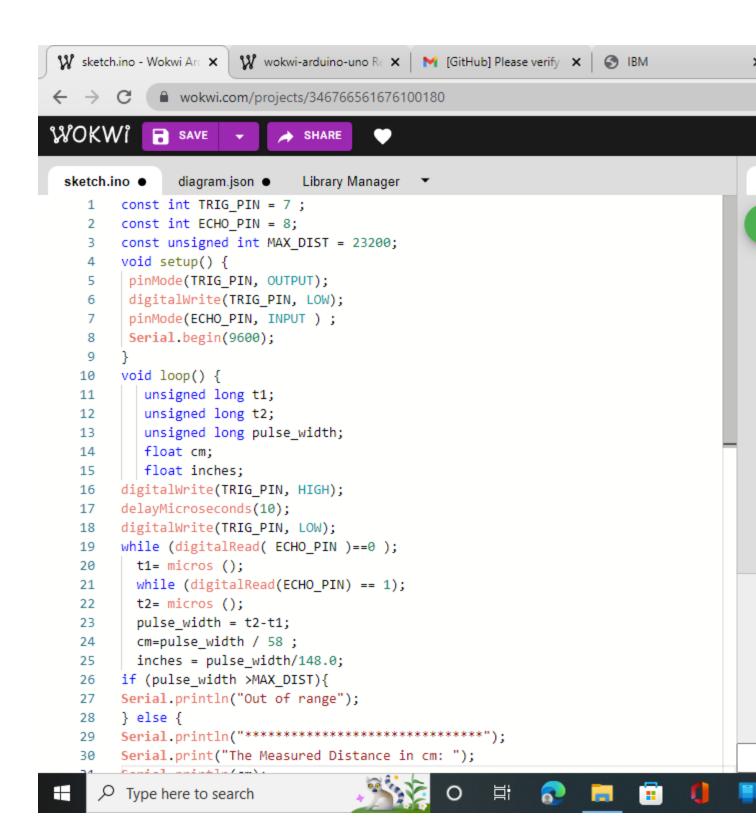
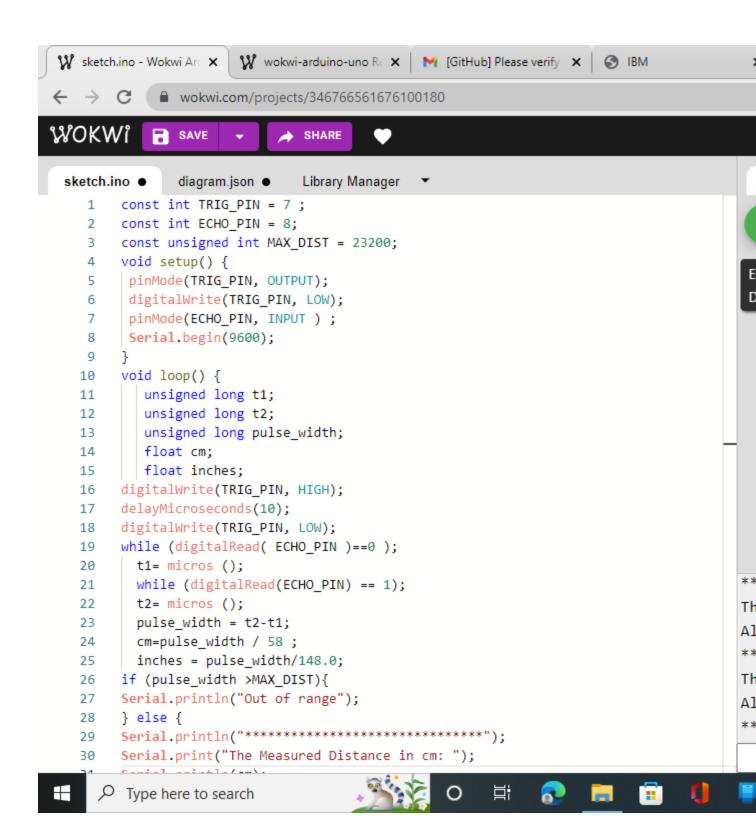
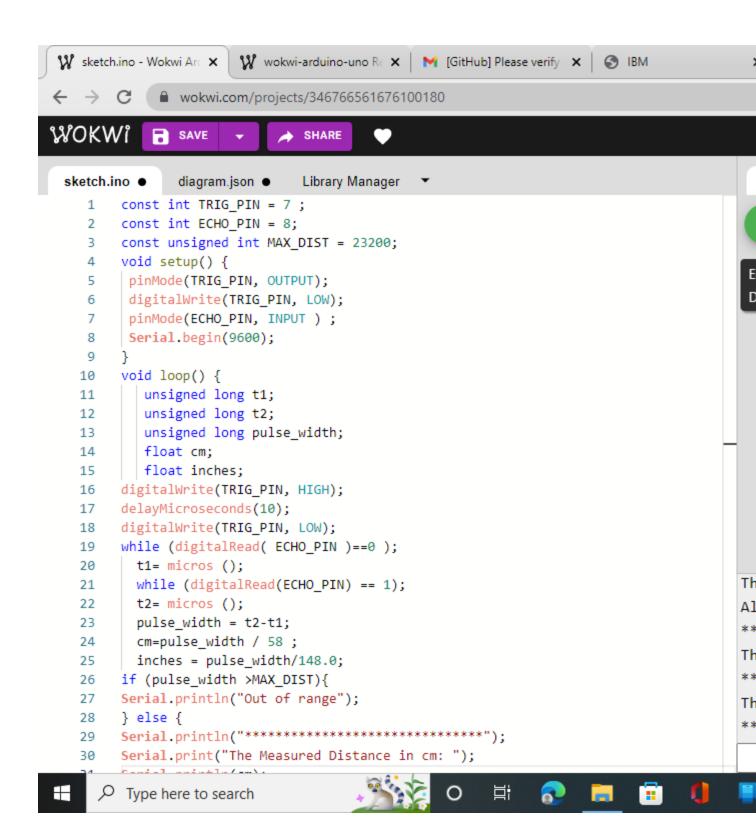
## CONNECTION IN WOKWI FOR THE ULTRASONIC SENSOR







## **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: ");
```