Assignment 4

#include "BluetoothSerial.h"

BluetoothSerial SerialBT;

int trigpin=4;

int echopin=5;

void setup() {

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

pinMode(2,OUTPUT);

Serial.begin(115200);

delay(3000);

SerialBT.begin("ESP32test"); //Bluetooth device name

}

void loop(){

digitalWrite(trigpin,LOW);

digitalWrite(trigpin,HIGH);

delay(10);

digitalWrite(trigpin,LOW);

int duration=pulseIn(echopin,HIGH);

int distance=(duration\*0.034)/2;

SerialBT.write(distance);

delay(1000);

Serial.println(distance);

if (SerialBT.available()) {

char a = SerialBT.read();

if(a == '0'){

digitalWrite(2,LOW);

}

else if(a == '1'){

digitalWrite(2,HIGH);

}

delay(500);

}

}