// i made a program to monitor pulse actually at echo pin. So i finally got succeed to measure HIGH and LOW pulse width in arduino with Ultrasonic. And the Low pulse was constant ~92 always. But the HIGH width was varying linearly with distance from my hand.See the snapshot attached in drive. And this is based on C concept, which i was talking of while loop only , So it should be cross platform as we wished.

Trig on Pin 13 and Echo on pin 2 of arduino .

const int buttonPin = 2; // the number of the pushbutton pin

const int ledPin = 13; // the number of the LED pin

// variables will change:

int buttonState = 0; // variable for reading the pushbutton status

int i = 0;

int j = 0;

void setup() {

// initialize the LED pin as an output:

pinMode(ledPin, OUTPUT);

// initialize the pushbutton pin as an input:

pinMode(buttonPin, INPUT);

Serial.begin(9600);

Serial.println("hii");

}

void loop(){

Serial.println("hii");

// read the state of the pushbutton value:

// buttonState = digitalRead(buttonPin);

// check if the pushbutton is pressed.

// if it is, the buttonState is HIGH:

// if (buttonState == HIGH) {

// // turn LED on:

// digitalWrite(ledPin, HIGH);

// }

// else {

// // turn LED off:

// digitalWrite(ledPin, LOW);

// }

digitalWrite(ledPin, HIGH);

delayMicroseconds(10);

digitalWrite(ledPin, LOW);

while(digitalRead(buttonPin) == LOW)

{

// digitalWrite(ledPin, LOW);

j++;

// delay(100);

}

while(digitalRead(buttonPin) == HIGH)

{

// digitalWrite(ledPin, HIGH);

i++;

// delay(100);

}

Serial.print("HIGH is");

Serial.println(i);

Serial.print("LOW is");

// Serial.println(i);

Serial.println(j);

i = 0;

j = 0;

delay(5000);

}