```
clear
clc
close all

% connect arduino
a = arduino();

% define variables and call pressureSensor function
 sampleTime = 10;
 thresh = 4.98;
 livePlot = true;
 pauseTime = 0;
 [data] = pulseSensor(a,sampleTime,thresh,livePlot,pauseTime);



pks = findpeaks(data.voltage, 'MinPeakHeight', 1.05 * median(data.voltage));

bpm = (length(pks) * 6);



s = servo(a, 'D9');
s2 = servo(a, 'D10');

% writePosition(s, 1);
%
%
% if (bpm >= 80)
%     for angle = 0: .1 :1
%         if (readPosition(s) == 0)
%             writePosition(s, 1);
%         end
%
%         writePosition(s, 1- angle);
%         writePosition(s2, angle);
%         current_pos = readPosition(s);
%         current_pos = current_pos*180;
%         disp(bpm);
%         pause(2);
%     end
% end
```

```
disp(bpm);
```