

Heart's Trace:

Kindly enter m for Manual, t for test mode and r for normal mode, o for observation rate.

Entered test mode.

Test Case 1 - Perfect Heart

Global Time: 0

Valid ASig : After Pvarp Global: 210 Iteration Time: 150

Valid VSig : After Avimin Global: 330 Iteration Time: 30

Valid ASig : After Pvarp Global: 570 Iteration Time: 150

Valid VSig : After Avimin Global: 690 Iteration Time: 30

Valid ASig : After Pvarp Global: 930 Iteration Time: 150

Valid VSig : After Avimin Global: 1050 Iteration Time: 30

Valid ASig : After Pvarp Global: 1290 Iteration Time: 150

Valid VSig : After Avimin Global: 1410 Iteration Time: 30

Valid ASig : After Pvarp Global: 1650 Iteration Time: 150

Valid VSig : After Avimin Global: 1770 Iteration Time: 30

Valid ASig : After Pvarp Global: 2010 Iteration Time: 150

Valid VSig : After Avimin Global: 2130 Iteration Time: 30

Valid ASig : After Pvarp Global: 2370 Iteration Time: 150

Valid VSig : After Avimin Global: 2490 Iteration Time: 30

Valid ASig : After Pvarp Global: 2730 Iteration Time: 150

Valid VSig : After Avimin Global: 2850 Iteration Time: 30

Valid ASig : After Pvarp Global: 3090 Iteration Time: 150

Valid VSig : After Avimin Global: 3210 Iteration Time: 30

Valid ASig : After Pvarp Global: 3450 Iteration Time: 150

Valid VSig : After Avimin Global: 3570 Iteration Time: 30

Valid ASig : After Pvarp Global: 3810 Iteration Time: 150

Valid VSig : After Avimin Global: 3930 Iteration Time: 30

Valid ASig : After Pvarp Global: 4170 Iteration Time: 150

Valid VSig : After Avimin Global: 4290 Iteration Time: 30

Valid ASig : After Pvarp Global: 4530 Iteration Time: 150

Valid VSig : After Avimin Global: 4650 Iteration Time: 30

Valid ASig : After Pvarp Global: 4890 Iteration Time: 150

Valid VSig : After Avimin Global: 5010 Iteration Time: 30

Valid ASig : After Pvarp Global: 5250 Iteration Time: 150

Valid VSig : After Avimin Global: 5370 Iteration Time: 30

Valid ASig : After Pvarp Global: 5610 Iteration Time: 150

Valid VSig : After Avimin Global: 5730 Iteration Time: 30

Valid ASig : After Pvarp Global: 5970 Iteration Time: 150

Valid VSig : After Avimin Global: 6090 Iteration Time: 30

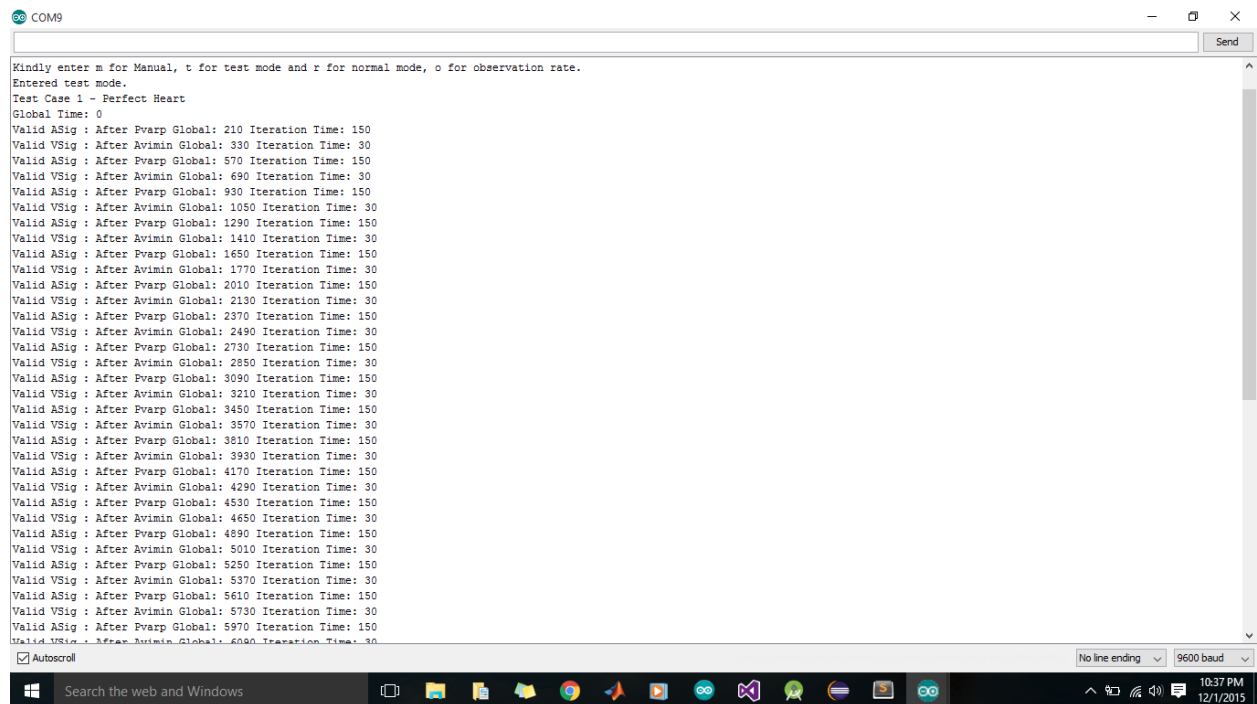
Valid ASig : After Pvarp Global: 6330 Iteration Time: 150

Valid VSig : After Avimin Global: 6450 Iteration Time: 30

Valid ASig : After Pvarp Global: 6690 Iteration Time: 150

Valid VSig : After Avimin Global: 6810 Iteration Time: 30

Valid ASig : After Pvarp Global: 7050 Iteration Time: 150  
Valid VSig : After Avimin Global: 7170 Iteration Time: 30  
Valid ASig : After Pvarp Global: 7410 Iteration Time: 150  
Valid VSig : After Avimin Global: 7530 Iteration Time: 30  
Valid ASig : After Pvarp Global: 7770 Iteration Time: 150  
Valid VSig : After Avimin Global: 7890 Iteration Time: 30  
Valid ASig : After Pvarp Global: 8130 Iteration Time: 150  
Valid VSig : After Avimin Global: 8250 Iteration Time: 30  
Valid ASig : After Pvarp Global: 8490 Iteration Time: 150  
Valid VSig : After Avimin Global: 8610 Iteration Time: 30  
Valid ASig : After Pvarp Global: 8850 Iteration Time: 150  
Valid VSig : After Avimin Global: 8970 Iteration Time: 30  
Valid ASig : After Pvarp Global: 9210 Iteration Time: 150  
Valid VSig : After Avimin Global: 9330 Iteration Time: 30



The screenshot shows a terminal window titled 'COM9' with a 'Send' button. The text inside the terminal is as follows:

```
Kindly enter m for Manual, t for test mode and r for normal mode, o for observation rate.
Entered test mode.
Test Case 1 - Perfect Heart
Global Time: 0
Valid ASig : After Pvarp Global: 210 Iteration Time: 150
Valid VSig : After Avimin Global: 330 Iteration Time: 30
Valid ASig : After Pvarp Global: 570 Iteration Time: 150
Valid VSig : After Avimin Global: 690 Iteration Time: 30
Valid ASig : After Pvarp Global: 930 Iteration Time: 150
Valid VSig : After Avimin Global: 1050 Iteration Time: 30
Valid ASig : After Pvarp Global: 1290 Iteration Time: 150
Valid VSig : After Avimin Global: 1410 Iteration Time: 30
Valid ASig : After Pvarp Global: 1650 Iteration Time: 150
Valid VSig : After Avimin Global: 1770 Iteration Time: 30
Valid ASig : After Pvarp Global: 2010 Iteration Time: 150
Valid VSig : After Avimin Global: 2130 Iteration Time: 30
Valid ASig : After Pvarp Global: 2370 Iteration Time: 150
Valid VSig : After Avimin Global: 2490 Iteration Time: 30
Valid ASig : After Pvarp Global: 2730 Iteration Time: 150
Valid VSig : After Avimin Global: 2850 Iteration Time: 30
Valid ASig : After Pvarp Global: 3090 Iteration Time: 150
Valid VSig : After Avimin Global: 3210 Iteration Time: 30
Valid ASig : After Pvarp Global: 3450 Iteration Time: 150
Valid VSig : After Avimin Global: 3570 Iteration Time: 30
Valid ASig : After Pvarp Global: 3810 Iteration Time: 150
Valid VSig : After Avimin Global: 3930 Iteration Time: 30
Valid ASig : After Pvarp Global: 4170 Iteration Time: 150
Valid VSig : After Avimin Global: 4290 Iteration Time: 30
Valid ASig : After Pvarp Global: 4530 Iteration Time: 150
Valid VSig : After Avimin Global: 4650 Iteration Time: 30
Valid ASig : After Pvarp Global: 4890 Iteration Time: 150
Valid VSig : After Avimin Global: 5010 Iteration Time: 30
Valid ASig : After Pvarp Global: 5250 Iteration Time: 150
Valid VSig : After Avimin Global: 5370 Iteration Time: 30
Valid ASig : After Pvarp Global: 5610 Iteration Time: 150
Valid VSig : After Avimin Global: 5730 Iteration Time: 30
Valid ASig : After Pvarp Global: 5970 Iteration Time: 150
Valid VSig : After Avimin Global: 6090 Iteration Time: 30
```

At the bottom of the terminal window, there are checkboxes for 'Autoscroll' (checked) and 'No line ending' (unchecked), and a dropdown menu for '9600 baud'.

Pacemaker's trace:



Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-VPace Sent!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!  
Pacemaker-ASignal Received!

Test case 2:

In this mode, there is no trace since the heart doesn't function.

Test case 3:

Heart's trace:

Test Case 3 - Valid ASignal and Vpace received Heart

Valid ASig : After Pvarp Global: 9319 Iteration Time: 150

Vpace Received : After URI and AVI max Global: 10044 Iteration Time: 634

Valid ASig : After Pvarp Global: 10310 Iteration Time: 150

Vpace Received : After URI and AVI max Global: 11364 Iteration Time: 964

Valid ASig : After Pvarp Global: 11630 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 17334 Iteration Time: 5614  
Valid ASig : After Pvarp Global: 17600 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 18384 Iteration Time: 694  
Valid ASig : After Pvarp Global: 18650 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 19494 Iteration Time: 754  
Valid ASig : After Pvarp Global: 19760 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 20634 Iteration Time: 784  
Valid ASig : After Pvarp Global: 20900 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 21894 Iteration Time: 904  
Valid ASig : After Pvarp Global: 22160 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 25464 Iteration Time: 3214  
Valid ASig : After Pvarp Global: 25730 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 26754 Iteration Time: 934  
Valid ASig : After Pvarp Global: 27020 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 30324 Iteration Time: 3214  
Valid ASig : After Pvarp Global: 30590 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 32514 Iteration Time: 1834  
Valid ASig : After Pvarp Global: 32780 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 33774 Iteration Time: 904  
Valid ASig : After Pvarp Global: 34040 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 37314 Iteration Time: 3184  
Valid ASig : After Pvarp Global: 37580 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 38604 Iteration Time: 934  
Valid ASig : After Pvarp Global: 38870 Iteration Time: 150  
Vpace Received : After URI and AVI max Global: 39744 Iteration Time: 784

```
COM9
Kindly enter m for Manual, t for test mode and r for normal mode, o for observation rate.
Entered test mode.
Test Case 1 - Perfect Heart
Global Time: 0
Test Case 2 - Dysfunctional Heart
Test Case 3 - Valid ASignal and Vspace received Heart
Valid ASig : After Pvarp Global: 9319 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 10044 Iteration Time: 634
Valid ASig : After Pvarp Global: 10310 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 11364 Iteration Time: 964
Valid ASig : After Pvarp Global: 11630 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 17334 Iteration Time: 5614
Valid ASig : After Pvarp Global: 17600 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 18384 Iteration Time: 694
Valid ASig : After Pvarp Global: 18650 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 19494 Iteration Time: 754
Valid ASig : After Pvarp Global: 19760 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 20634 Iteration Time: 784
Valid ASig : After Pvarp Global: 20900 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 21894 Iteration Time: 904
Valid ASig : After Pvarp Global: 22160 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 25464 Iteration Time: 3214
Valid ASig : After Pvarp Global: 25730 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 26754 Iteration Time: 934
Valid ASig : After Pvarp Global: 27020 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 30324 Iteration Time: 3214
Valid ASig : After Pvarp Global: 30590 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 32514 Iteration Time: 1834
Valid ASig : After Pvarp Global: 32780 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 33774 Iteration Time: 904
Valid ASig : After Pvarp Global: 34040 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 37314 Iteration Time: 3184
Valid ASig : After Pvarp Global: 37580 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 38604 Iteration Time: 934
Valid ASig : After Pvarp Global: 38870 Iteration Time: 150
Vspace Received : After URI and AVI max Global: 39744 Iteration Time: 784
Exited test mode.
Autoscroll
No line ending
9600 baud
11:09 PM
12/1/2015
```

## Test case 4:

### Heart:

Test case 4- Valid V signal is sent and Apace is received

APace received : After LRI Global: 25609 Iteration Time: 1049

Valid VSig : After Avimax and URI Global: 25759 Iteration Time: 59

APace received : After LRI Global: 26749 Iteration Time: 869

Valid VSig : After Avimax and URI Global: 26899 Iteration Time: 59

APace received : After LRI Global: 28014 Iteration Time: 994

Valid VSig : After Avimax and URI Global: 28159 Iteration Time: 59

APace received : After LRI Global: 29123 Iteration Time: 843

Valid VSig : After Avimax and URI Global: 29269 Iteration Time: 59

APace received : After LRI Global: 30289 Iteration Time: 899

Valid VSig : After Avimax and URI Global: 30439 Iteration Time: 59

APace received : After LRI Global: 31639 Iteration Time: 1079

Valid VSig : After Avimax and URI Global: 31789 Iteration Time: 59

APace received : After LRI Global: 33023 Iteration Time: 1113

Valid VSig : After Avimax and URI Global: 33169 Iteration Time: 59

APace received : After LRI Global: 34309 Iteration Time: 1019

Valid VSig : After Avimax and URI Global: 34459 Iteration Time: 59

APace received : After LRI Global: 35359 Iteration Time: 779

Valid VSig : After Avimax and URI Global: 35509 Iteration Time: 59

APace received : After LRI Global: 36409 Iteration Time: 779

Valid VSig : After Avimax and URI Global: 36559 Iteration Time: 59

APace received : After LRI Global: 37609 Iteration Time: 929

Valid VSig : After Avimax and URI Global: 37759 Iteration Time: 59  
 APace received : After LRI Global: 38779 Iteration Time: 899  
 Valid VSig : After Avimax and URI Global: 38929 Iteration Time: 59  
 APace received : After LRI Global: 39829 Iteration Time: 779  
 Valid VSig : After Avimax and URI Global: 39979 Iteration Time: 59  
 APace received : After LRI Global: 41089 Iteration Time: 989  
 Valid VSig : After Avimax and URI Global: 41239 Iteration Time: 59  
 APace received : After LRI Global: 42439 Iteration Time: 1079  
 Valid VSig : After Avimax and URI Global: 42589 Iteration Time: 59  
 Exited test mode.

```

Vpace Received : After URI and AVI max Global: 24324 Iteration Time: 154
Test case 4- Valid V signal is sent and Apace is received
APace received : After LRI Global: 25609 Iteration Time: 1049
Valid VSig : After Avimax and URI Global: 25759 Iteration Time: 59
APace received : After LRI Global: 26749 Iteration Time: 869
Valid VSig : After Avimax and URI Global: 26899 Iteration Time: 59
APace received : After LRI Global: 28014 Iteration Time: 994
Valid VSig : After Avimax and URI Global: 28159 Iteration Time: 59
APace received : After LRI Global: 29123 Iteration Time: 843
Valid VSig : After Avimax and URI Global: 29269 Iteration Time: 59
APace received : After LRI Global: 30289 Iteration Time: 899
Valid VSig : After Avimax and URI Global: 30439 Iteration Time: 59
APace received : After LRI Global: 31639 Iteration Time: 1079
Valid VSig : After Avimax and URI Global: 31789 Iteration Time: 59
APace received : After LRI Global: 33023 Iteration Time: 1113
Valid VSig : After Avimax and URI Global: 33169 Iteration Time: 59
APace received : After LRI Global: 34309 Iteration Time: 1019
Valid VSig : After Avimax and URI Global: 34459 Iteration Time: 59
APace received : After LRI Global: 35359 Iteration Time: 779
Valid VSig : After Avimax and URI Global: 35509 Iteration Time: 59
APace received : After LRI Global: 36409 Iteration Time: 779
Valid VSig : After Avimax and URI Global: 36559 Iteration Time: 59
APace received : After LRI Global: 37609 Iteration Time: 929
Valid VSig : After Avimax and URI Global: 37759 Iteration Time: 59
APace received : After LRI Global: 38779 Iteration Time: 899
Valid VSig : After Avimax and URI Global: 38929 Iteration Time: 59
APace received : After LRI Global: 39829 Iteration Time: 779
Valid VSig : After Avimax and URI Global: 39979 Iteration Time: 59
APace received : After LRI Global: 41089 Iteration Time: 989
Valid VSig : After Avimax and URI Global: 41239 Iteration Time: 59
APace received : After LRI Global: 42439 Iteration Time: 1079
Valid VSig : After Avimax and URI Global: 42589 Iteration Time: 59
Exited test mode.
Entered manual mode. Press a and v to generate a and v signals respectively
Press a for asignal and v for v signal. Press e to exit.
Asignal Sent -- Manual
Asignal Sent -- Manual
Vsignal Sent -- Manual
  
```

#### Test Case 4:

Test case 4- Valid V signal is sent and Apace is received  
 APace received : After LRI Global: 45439 Iteration Time: 899  
 Valid VSig : After Avimax and URI Global: 45589 Iteration Time: 59  
 APace received : After LRI Global: 46731 Iteration Time: 1021  
 Valid VSig : After Avimax and URI Global: 46879 Iteration Time: 59  
 APace received : After LRI Global: 47779 Iteration Time: 779  
 Valid VSig : After Avimax and URI Global: 47929 Iteration Time: 59  
 APace received : After LRI Global: 48859 Iteration Time: 809  
 Valid VSig : After Avimax and URI Global: 49009 Iteration Time: 59  
 APace received : After LRI Global: 49939 Iteration Time: 809  
 Valid VSig : After Avimax and URI Global: 50089 Iteration Time: 59  
 APace received : After LRI Global: 51289 Iteration Time: 1079  
 Valid VSig : After Avimax and URI Global: 51439 Iteration Time: 59

APace received : After LRI Global: 52429 Iteration Time: 869  
 Valid VSig : After Avimax and URI Global: 52579 Iteration Time: 59  
 APace received : After LRI Global: 53659 Iteration Time: 959  
 Valid VSig : After Avimax and URI Global: 53809 Iteration Time: 59  
 APace received : After LRI Global: 54739 Iteration Time: 809  
 Valid VSig : After Avimax and URI Global: 54889 Iteration Time: 59  
 APace received : After LRI Global: 56032 Iteration Time: 1022  
 Valid VSig : After Avimax and URI Global: 56179 Iteration Time: 59  
 APace received : After LRI Global: 57139 Iteration Time: 839  
 Valid VSig : After Avimax and URI Global: 57289 Iteration Time: 59  
 APace received : After LRI Global: 58342 Iteration Time: 932  
 Valid VSig : After Avimax and URI Global: 58489 Iteration Time: 59  
 APace received : After LRI Global: 59419 Iteration Time: 809  
 Valid VSig : After Avimax and URI Global: 59569 Iteration Time: 59  
 APace received : After LRI Global: 60619 Iteration Time: 929  
 Valid VSig : After Avimax and URI Global: 60769 Iteration Time: 59  
 APace received : After LRI Global: 61943 Iteration Time: 1053  
 Valid VSig : After Avimax and URI Global: 62089 Iteration Time: 59  
 Exited test mode.

The screenshot shows a serial terminal window titled 'COM9' with a 'Send' button. The terminal displays the following text:

```

Test Case 1 - Perfect Heart
Global Time: 0
Test Case 2 - Dysfunctional Heart
Test Case 3 - Valid ASignal and Vspace received Heart
Test case 4 - Valid V signal is sent and Apace is received
  APace received : After LRI Global: 45499 Iteration Time: 899
  Valid VSig : After Avimax and URI Global: 45599 Iteration Time: 59
  APace received : After LRI Global: 46791 Iteration Time: 1021
  Valid VSig : After Avimax and URI Global: 46879 Iteration Time: 59
  APace received : After LRI Global: 47779 Iteration Time: 779
  Valid VSig : After Avimax and URI Global: 47929 Iteration Time: 59
  APace received : After LRI Global: 48859 Iteration Time: 809
  Valid VSig : After Avimax and URI Global: 49009 Iteration Time: 59
  APace received : After LRI Global: 49939 Iteration Time: 809
  Valid VSig : After Avimax and URI Global: 50089 Iteration Time: 59
  APace received : After LRI Global: 51289 Iteration Time: 1079
  Valid VSig : After Avimax and URI Global: 51439 Iteration Time: 59
  APace received : After LRI Global: 52429 Iteration Time: 869
  Valid VSig : After Avimax and URI Global: 52579 Iteration Time: 59
  APace received : After LRI Global: 53659 Iteration Time: 959
  Valid VSig : After Avimax and URI Global: 53809 Iteration Time: 59
  APace received : After LRI Global: 54739 Iteration Time: 809
  Valid VSig : After Avimax and URI Global: 54889 Iteration Time: 59
  APace received : After LRI Global: 56032 Iteration Time: 1022
  Valid VSig : After Avimax and URI Global: 56179 Iteration Time: 59
  APace received : After LRI Global: 57139 Iteration Time: 839
  Valid VSig : After Avimax and URI Global: 57289 Iteration Time: 59
  APace received : After LRI Global: 58342 Iteration Time: 932
  Valid VSig : After Avimax and URI Global: 58489 Iteration Time: 59
  APace received : After LRI Global: 59419 Iteration Time: 809
  Valid VSig : After Avimax and URI Global: 59569 Iteration Time: 59
  APace received : After LRI Global: 60619 Iteration Time: 929
  Valid VSig : After Avimax and URI Global: 60769 Iteration Time: 59
  APace received : After LRI Global: 61943 Iteration Time: 1053
  Valid VSig : After Avimax and URI Global: 62089 Iteration Time: 59
Entered observation mode.
The default waiting interval is 10s. Do you want to modify it? y or n?
  
```

At the bottom of the terminal window, there is a checkbox for 'Autoscroll' which is checked, and a status bar showing 'No line ending' and '9600 baud'. The Windows taskbar is visible at the bottom of the screen, showing the time as 11:26 PM on 12/1/2015.

Pacemaker:

Observation Interval Trace and Modes:



Press n or N for normal mode  
Press m or M for manual mode  
Press s or S for sleep mode  
Press e or E for exercise mode  
Press o or O for exercise mode  
Pacemaker-Asignal Received! Global Time : 631  
Pacemaker-VPace Sent! Global Time : 1139  
Pacemaker-Asignal Received! Global Time : 1501  
Pacemaker-Vsignal Received! Global Time : 2418  
Pacemaker-Apace Sent! Global Time : 3602  
Pacemaker-VPace Sent! Global Time : 3735  
Pacemaker-Apace Sent! Global Time : 4859  
Pacemaker-VPace Sent! Global Time : 4994  
Pacemaker-Asignal Received! Global Time : 5808  
Pacemaker-VPace Sent! Global Time : 6209  
Pacemaker-Asignal Received! Global Time : 6841  
Pacemaker-VPace Sent! Global Time : 7364  
Pacemaker-Asignal Received! Global Time : 8189  
Pacemaker-VPace Sent! Global Time : 8744  
Pacemaker-Asignal Received! Global Time : 9272  
Pacemaker-VPace Sent! Global Time : 9824  
Pacemaker-Apace Sent! Global Time : 11101  
Pacemaker-VPace Sent! Global Time : 11234  
Pacemaker-Asignal Received! Global Time : 11914  
Pacemaker-VPace Sent! Global Time : 12359  
Pacemaker-Asignal Received! Global Time : 12960  
Pacemaker-VPace Sent! Global Time : 13499  
Pacemaker-Asignal Received! Global Time : 14342  
Pacemaker-VPace Sent! Global Time : 14639  
Pacemaker-Asignal Received! Global Time : 15153  
Pacemaker-Asignal Received! Global Time : 15239  
Pacemaker-Asignal Received! Global Time : 15330  
Pacemaker-VPace Sent! Global Time : 15959  
Pacemaker-Asignal Received! Global Time : 16709  
Pacemaker-VPace Sent! Global Time : 17024  
Pacemaker-Asignal Received! Global Time : 17689  
Mode switching to Exercise Mode  
Pacemaker-VPace Sent! Global Time : 17882  
Pacemaker-Apace Sent! Global Time : 18409  
Pacemaker-VPace Sent! Global Time : 18542  
Pacemaker-Apace Sent! Global Time : 18832  
Pacemaker-VPace Sent! Global Time : 18977

Pacemaker-Apace Sent! Global Time : 19327  
Pacemaker-VPace Sent! Global Time : 19472  
Pacemaker-Apace Sent! Global Time : 19817  
Pacemaker-VPace Sent! Global Time : 19952  
Pacemaker-Apace Sent! Global Time : 20419  
Pacemaker-VPace Sent! Global Time : 20552  
Pacemaker-Apace Sent! Global Time : 20988  
Pacemaker-VPace Sent! Global Time : 21122  
Pacemaker-Apace Sent! Global Time : 21618  
Pacemaker-VPace Sent! Global Time : 21752  
Pacemaker-Apace Sent! Global Time : 22041  
Pacemaker-Vsignal Received! Global Time : 22174  
Pacemaker-Apace Sent! Global Time : 22728  
Pacemaker-VPace Sent! Global Time : 22862  
Pacemaker-Apace Sent! Global Time : 23178  
Pacemaker-VPace Sent! Global Time : 23312  
Pacemaker-Apace Sent! Global Time : 23692  
Pacemaker-VPace Sent! Global Time : 23837  
Pacemaker-Apace Sent! Global Time : 24182  
Pacemaker-VPace Sent! Global Time : 24317  
Pacemaker-Apace Sent! Global Time : 24753  
Pacemaker-VPace Sent! Global Time : 24887  
Pacemaker-Apace Sent! Global Time : 25339  
Pacemaker-VPace Sent! Global Time : 25472  
Pacemaker-Apace Sent! Global Time : 25834  
Pacemaker-VPace Sent! Global Time : 25967  
The default waiting interval is 10s. Do you want to modify it? y or n?  
Pacemaker-Apace Sent! Global Time : 26436  
Pacemaker-VPace Sent! Global Time : 26582  
Pacemaker-Apace Sent! Global Time : 26943  
Pacemaker-VPace Sent! Global Time : 27077  
Default rate set to 10.  
Pacemaker-Apace Sent! Global Time : 27453  
Pacemaker-VPace Sent! Global Time : 27587  
Pacemaker-Apace Sent! Global Time : 28098  
Pacemaker-VPace Sent! Global Time : 28232  
Pacemaker-Apace Sent! Global Time : 28578  
Pacemaker-VPace Sent! Global Time : 28712  
Pacemaker-Apace Sent! Global Time : 29088  
Pacemaker-VPace Sent! Global Time : 29222  
Pacemaker-Apace Sent! Global Time : 29612  
Pacemaker-VPace Sent! Global Time : 29747  
Pacemaker-Apace Sent! Global Time : 30138

Pacemaker-VPace Sent! Global Time : 30272  
Pacemaker-Apace Sent! Global Time : 30632  
Pacemaker-VPace Sent! Global Time : 30767  
Pacemaker-Apace Sent! Global Time : 31053  
Pacemaker-Vsignal Received! Global Time : 31161  
Pacemaker-Apace Sent! Global Time : 31488  
Pacemaker-VPace Sent! Global Time : 31622  
Pacemaker-Apace Sent! Global Time : 32013  
Pacemaker-VPace Sent! Global Time : 32147  
Pacemaker-Apace Sent! Global Time : 32688  
Pacemaker-VPace Sent! Global Time : 32822  
Pacemaker-Apace Sent! Global Time : 33157  
Pacemaker-VPace Sent! Global Time : 33302  
Pacemaker-Apace Sent! Global Time : 33588  
Pacemaker-VPace Sent! Global Time : 33722  
Pacemaker-Apace Sent! Global Time : 34039  
Pacemaker-VPace Sent! Global Time : 34172  
Pacemaker-Apace Sent! Global Time : 34683  
Pacemaker-VPace Sent! Global Time : 34817  
Pacemaker-Apace Sent! Global Time : 35329  
Pacemaker-VPace Sent! Global Time : 35462  
Pacemaker-Apace Sent! Global Time : 35992  
Pacemaker-VPace Sent! Global Time : 36137  
Pacemaker-Apace Sent! Global Time : 36437  
Pacemaker-VPace Sent! Global Time : 36572  
Pacemaker-Apace Sent! Global Time : 36935  
Pacemaker-VPace Sent! Global Time : 37082  
Heart Rate 114

Rate for Sleep mode when heart is manual:

```
COM4
Pacemaker-VFace Sent! Global Time : 73796
Pacemaker-Apace Sent! Global Time : 74096
Pacemaker-VFace Sent! Global Time : 74231
Pacemaker-Apace Sent! Global Time : 74636
Pacemaker-VFace Sent! Global Time : 74771
Pacemaker-Apace Sent! Global Time : 75252
Pacemaker-VFace Sent! Global Time : 75386
Pacemaker-Apace Sent! Global Time : 75885
Pacemaker-VFace Sent! Global Time : 76031
Pacemaker-Apace Sent! Global Time : 76512
Mode switching to Sleep Mode
Pacemaker-VFace Sent! Global Time : 76651
Pacemaker-Apace Sent! Global Time : 78166
Pacemaker-VFace Sent! Global Time : 78301
The default waiting interval is 10s. Do you want to modify it? y or n?
Pacemaker-Apace Sent! Global Time : 80026
Pacemaker-VFace Sent! Global Time : 80161
Default rate set to 10.
Pacemaker-Apace Sent! Global Time : 81708
Pacemaker-VFace Sent! Global Time : 81841
Pacemaker-Apace Sent! Global Time : 83356
Pacemaker-VFace Sent! Global Time : 83491
Pacemaker-Apace Sent! Global Time : 85203
Pacemaker-VFace Sent! Global Time : 85336
Pacemaker-Apace Sent! Global Time : 86851
Pacemaker-VFace Sent! Global Time : 86986
Pacemaker-Apace Sent! Global Time : 88551
Pacemaker-VFace Sent! Global Time : 88696
Pacemaker-Apace Sent! Global Time : 90361
Pacemaker-VFace Sent! Global Time : 90496
Heart Rate 36
Pacemaker-Apace Sent! Global Time : 92116
Pacemaker-VFace Sent! Global Time : 92251
Pacemaker-Apace Sent! Global Time : 93736
Pacemaker-VFace Sent! Global Time : 93871
Pacemaker-Apace Sent! Global Time : 95342
Pacemaker-VFace Sent! Global Time : 95476
Pacemaker-Apace Sent! Global Time : 97246
Autoscroll No line ending 9600 baud
11:42 PM 12/1/2015
```

Rate for Exercise Mode when heart is manual:

```
COM4
Pacemaker-Apace Sent! Global Time : 9020
Pacemaker-VFace Sent! Global Time : 9154
Pacemaker-Apace Sent! Global Time : 9469
Pacemaker-VFace Sent! Global Time : 9604
Pacemaker-Apace Sent! Global Time : 10115
Pacemaker-VFace Sent! Global Time : 10249
Pacemaker-Apace Sent! Global Time : 10595
Pacemaker-VFace Sent! Global Time : 10729
Pacemaker-Apace Sent! Global Time : 11256
Pacemaker-VFace Sent! Global Time : 11389
Pacemaker-Apace Sent! Global Time : 11679
Pacemaker-VFace Sent! Global Time : 11824
Pacemaker-Apace Sent! Global Time : 12174
Pacemaker-VFace Sent! Global Time : 12319
Pacemaker-Apace Sent! Global Time : 12664
Pacemaker-VFace Sent! Global Time : 12799
Pacemaker-Apace Sent! Global Time : 13266
Pacemaker-VFace Sent! Global Time : 13399
Pacemaker-Apace Sent! Global Time : 13834
Pacemaker-VFace Sent! Global Time : 13969
Pacemaker-Apace Sent! Global Time : 14465
Pacemaker-VFace Sent! Global Time : 14599
Pacemaker-Apace Sent! Global Time : 14888
Pacemaker-VFace Sent! Global Time : 15034
Pacemaker-Apace Sent! Global Time : 15560
Pacemaker-VFace Sent! Global Time : 15694
Pacemaker-Apace Sent! Global Time : 16009
Pacemaker-VFace Sent! Global Time : 16144
Pacemaker-Apace Sent! Global Time : 16524
Pacemaker-VFace Sent! Global Time : 16669
Pacemaker-Apace Sent! Global Time : 17014
Pacemaker-VFace Sent! Global Time : 17149
Pacemaker-Apace Sent! Global Time : 17584
Pacemaker-VFace Sent! Global Time : 17719
Heart Rate 108
Pacemaker-Apace Sent! Global Time : 18171
Pacemaker-VFace Sent! Global Time : 18304
Pacemaker-Apace Sent! Global Time : 18666
Autoscroll No line ending 9600 baud
11:44 PM 12/1/2015
```

Note : These will be closer to their lower bounds since pacing is happening