# Test plan

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| Test ID | Description | Prerequisite | Expected input | Expected output | Actual output | Remarks |
| HH-01 LL-01 | Supply voltage for Arduino between +7v to +16v and Blood pressure sensor requires +5v, 200mA regulated supply | Input voltage 230v stepdown to 5V DC or Plug the board into a USB port on your computer | Input:5V DC | Check that the green LED power indicator is ON located near the reset switch. | Green LED power indicator is ON located near the reset switch. | Pass |
| HH-01 LL-01 | Supply voltage for Arduino between +7v to +16v and Blood pressure sensor requires +5v, 200mA regulated supply | Input voltage 230v stepdown to 5V DC or Plug the board into a USB port on your computer | Input: Below 4.9v DC | Check that the green LED power indicator is OFF located near the reset switch. | Green LED power indicator is ON located near the reset switch. | Fail |
| HH-02 LL-02 | Serial data at 9600 baud rate (8 bits’ data, No parity, 1 stop bits).  Outputs three parameters in ASCII.   * Systolic * Diastolic * Pulse | Initialize the baud rate to 9600 | Input : baud rate 9600 | Check whether able to read the data coming at serial pins of Arduino | Data obtained for   * Systolic * Diastolic * Pulse | Pass |
| HH-02 LL-02 | Serial data at 9600 baud rate (8 bits’ data, No parity, 1 stop bits).  Outputs three parameters in ASCII.   * Systolic * Diastolic * Pulse | Initialize the baud rate to 9600 | Input : baud rate 115200 | Check whether able to read the data coming at serial pins of Arduino | Garbage data obtained | Fail |
| HH-03 LL-03 | Checking Serial pins(digital pin 0 & digital pin 1) (Rx & TX) | Serial pins(digital pin 0 & digital pin 1) (Rx & TX) of Arduino must be connected the TX &Rx pins of blood Pressure sensor. | Systolic, Diastolic and Pulse | Systolic, Diastolic and Pulse output at LCD | Systolic, Diastolic and Pulse output at LCD observed | Pass |
| HL-04 LL-04 | configuring Digital pins for Rx and TX | Configure the Digital pins(2 to 13) of Arduino to use Rx & Tx | Systolic, Diastolic and Pulse | Systolic, Diastolic and Pulse output at LCD | Systolic, Diastolic and Pulse output at LCD observed | Pass |
| HL-05 LL-05 | External supply check | Connect a battery of +5v output. | Input:5V DC | Check that the green LED power indicator is ON located near the reset switch. | Green LED power indicator is ON located near the reset switch. | Pass |
| HL-05 LL-05 | External supply check | Connect a battery of +4v output. | Input:4V DC | Check that the green LED power indicator is ON located near the reset switch. | Green LED power indicator is OFF located near the reset switch. | Fail |
| HL-07 LL-07 | Memory | Make sure memory installed in BP sensor | Do trails for 60 patients | Check for 60 Patients data | 60 patient data identified |  |
| HL-07 LL-07 | Memory | Make sure memory installed in BP sensor installed in BP sensor | Do trails for 30 patients | Check for 60 Patients data | 30 patient data identified |  |