**Setting up Pi with pre-installed Image**

1. Power up the Pi.
2. Follow the instructions to install the Raspbian OS. This will take a while.
3. Then choose the location (new York), Key board style (US), Language (US).
4. Try to install updates if prompted.
5. Turn on the Bluetooth on by clicking on the Bluetooth logo on the task bar.
6. Open the terminal and install the hcidump package, using the following command.
   1. sudo apt-get install bluez bluez-hcidump
7. Copy paste the 2 codes in the home/pi/ directory
8. You can run the code manually in 2 separate terminals using
   1. sudo python3 hcitool\_inquiry\_v1.py
   2. sudo python3 bt\_terminal\_v1.py
9. Once the code runs successfully, copy paste 8a and 8b in crontab file, to run the code automatically at reboot. To open crontab, open the terminal and type;
   1. crontab -e
   2. and paste the following code at the end
      1. @reboot sudo python3 hcitool\_inquiry\_v1.py
      2. @reboot sudo python3 bt\_terminal\_v1.py
      3. 30 23 \* \* \* sudo reboot

**9.b.iii) The device will reboot at 11:30 pm daily. Browse net for more options**

1. Make sure the following items from the bt\_terminal code
   1. Device name as raspi\_X
   2. Server IP address (public/Global sever IP address)
2. Reboot the device,

Running the server code:

1. Install the necessary packages on the computer
2. And enter the localhost IP address in the code in line 13 of the server\_v1.py
3. Run the code.
4. There could be a situation where the data might not enter into the port due to NCSU’s firewall, then the data can be retrieved from the pi directly.

Setting up a new SD card:

<https://www.raspberrypi.org/downloads/raspbian/>

<https://www.raspberrypi.org/documentation/installation/installing-images/README.md>

<https://www.raspberrypi.org/documentation/installation/installing-images/windows.md>