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Dr. Mitachell

ENPM701 Assgmn #1

Moving Average

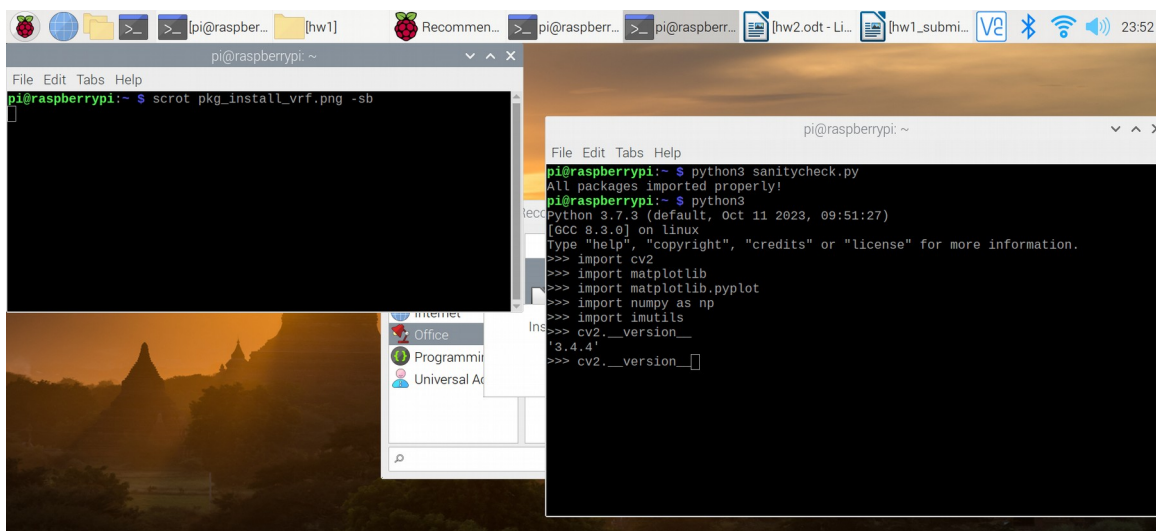
## Assignment #2

Confirming initial setup and configuration of Raspberry Pi working

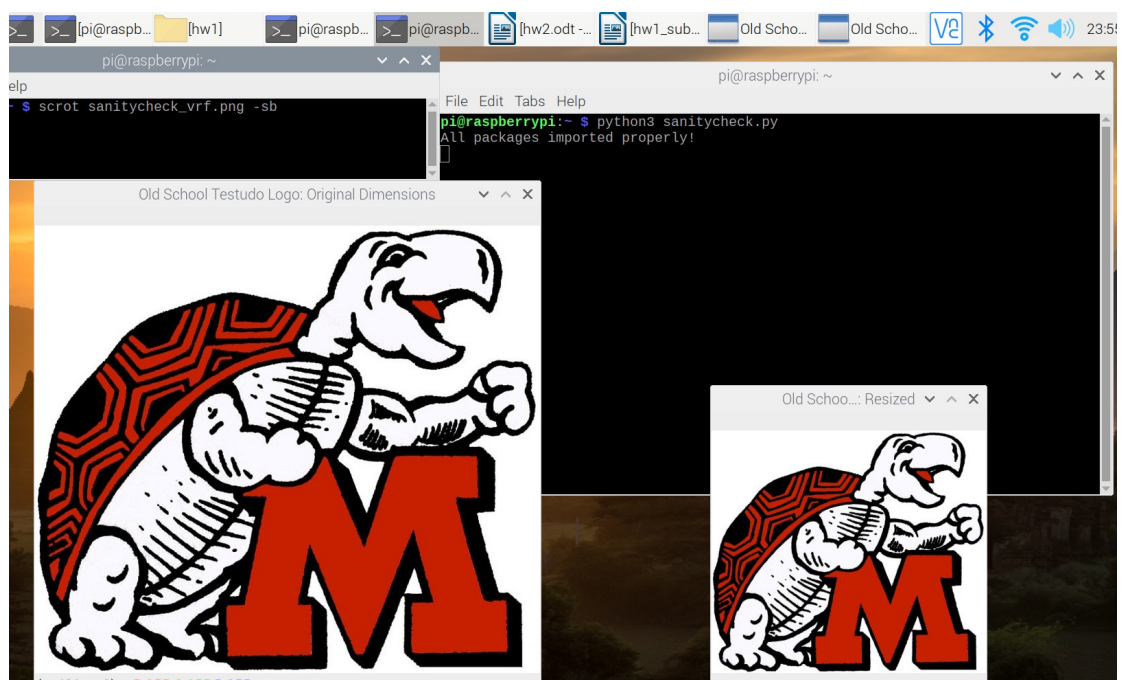
### Question #1

To do checks

1. All packages properly imported in Python and sanitycheck.py working with no errors



The screenshot shows a Raspberry Pi desktop environment. In the background, there is a desktop wallpaper of a sunset over a landscape. In the foreground, there are two terminal windows. The left terminal window shows the command `scrot pkg_install_vrf.png -sb` being executed. The right terminal window shows the command `python3 sanitycheck.py` being executed, which outputs "All packages imported properly!". Below the terminal windows, there is a small application window titled "Office" with a menu bar and several icons.



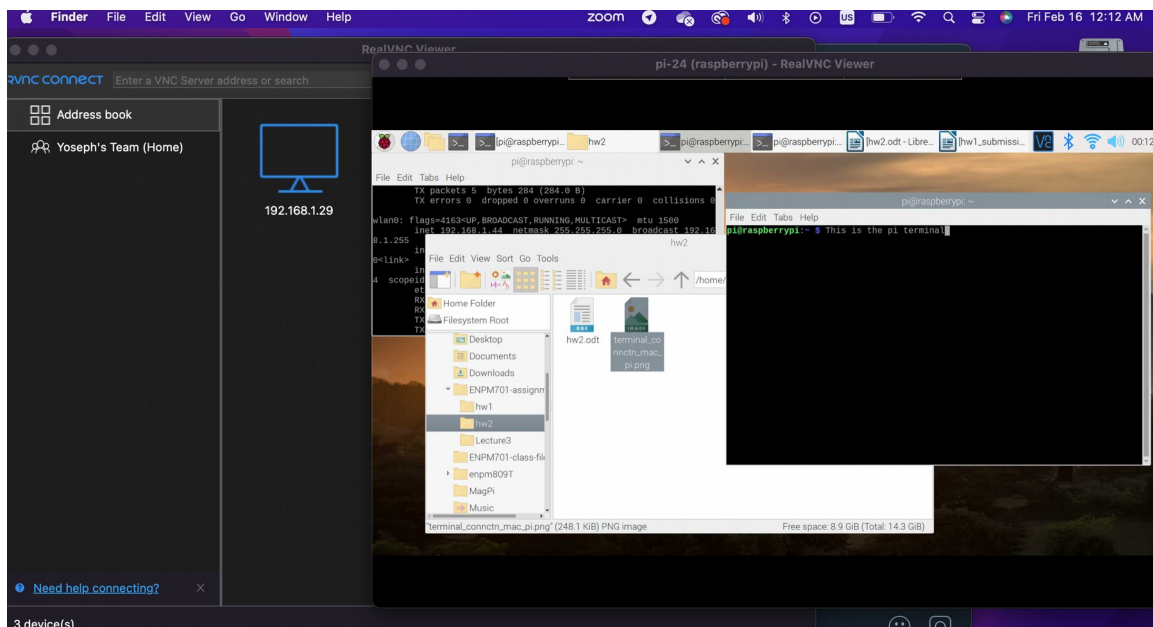
## 2. Wiireless connection to Pi: Putty/Terminal and VNC

```
Window Help zoom [icons] Thu Feb 15 11:59 PM
yosephkebede — pi@raspberrypi: ~ — ssh pi@192.168.1.44 — 181x49

Yosephs-MacBook-Pro-2:~ yosephkebede$ ssh pi@192.168.1.44
^C
Yosephs-MacBook-Pro-2:~ yosephkebede$ ssh pi@192.168.1.44
pi@192.168.1.44's password:
Linux raspberrypi 5.10.103-v7+ #1529 SMP Tue Mar 8 12:21:37 GMT 2022 armv7l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

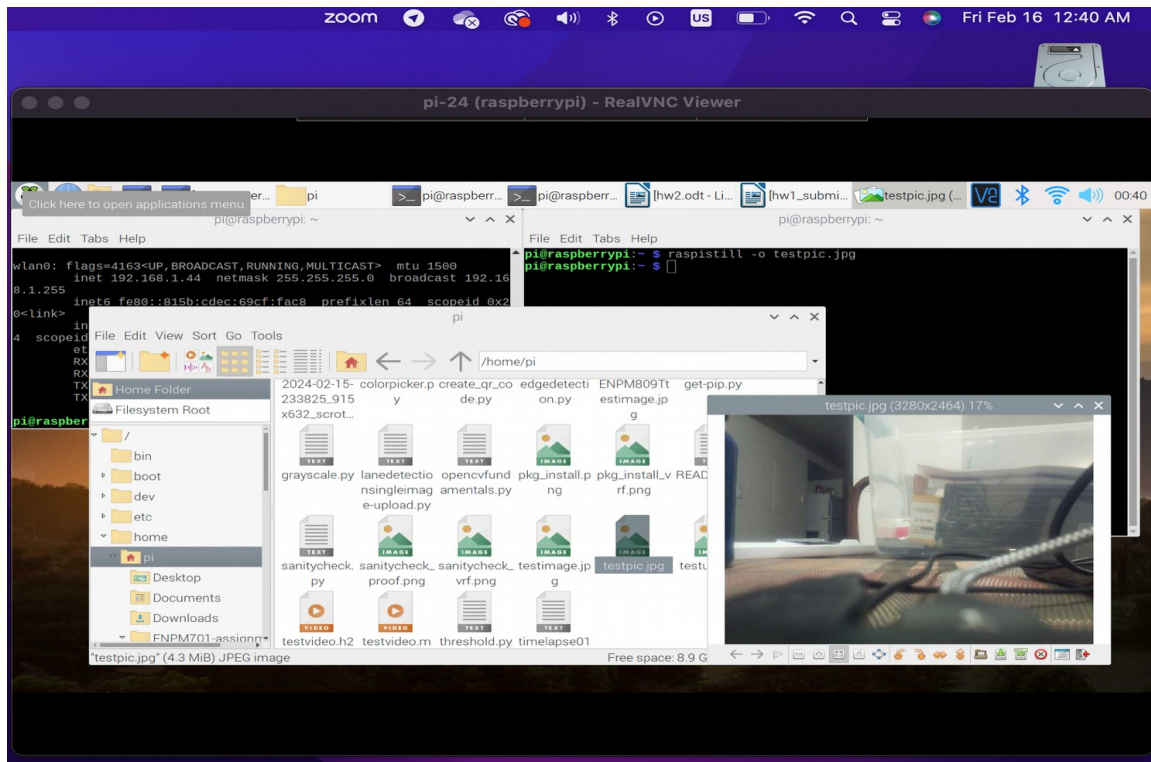
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Feb 15 02:50:18 2024
pi@raspberrypi:~$
```



## 3. Transfer files between Raspberry Pi to laptop

```
Yosephs-MacBook-Pro-2:UMD documents yosephkebede$ scp Grad-School/ENPM701/HW/terminal_connctn_mac_pi.png pi@raspberrypi.local:~/ENPM701-assignments/hw2/
pi@raspberrypi.local's password:
terminal_connctn_mac_pi.png 100% 248KB 2.3MB/s 00:00
Yosephs-MacBook-Pro-2:UMD documents yosephkebede$ scp Grad-School/ENPM701/HW/ pi@raspberrypi.local:~/ENPM701-assignments/hw2/
ENPM 701 - Assignment 1.pdf ENPM 701 - Assignment 2.pdf ENPM 701 - Assignment 3.pdf terminal_connctn_mac_pi.png vnc_verification.png
Yosephs-MacBook-Pro-2:UMD documents yosephkebede$ scp Grad-School/ENPM701/HW/vnc_verification.png pi@raspberrypi.local:~/ENPM701-assignments/hw2/
pi@raspberrypi.local's password:
vnc_verification.png 100% 1021KB 2.2MB/s 00:00
Yosephs-MacBook-Pro-2:UMD documents yosephkebede$
```

## 4. Raspistill and raspvid function correctly



5. Picamera functions properly (39 secs video)

<https://youtu.be/o4EgsfYXHYE>