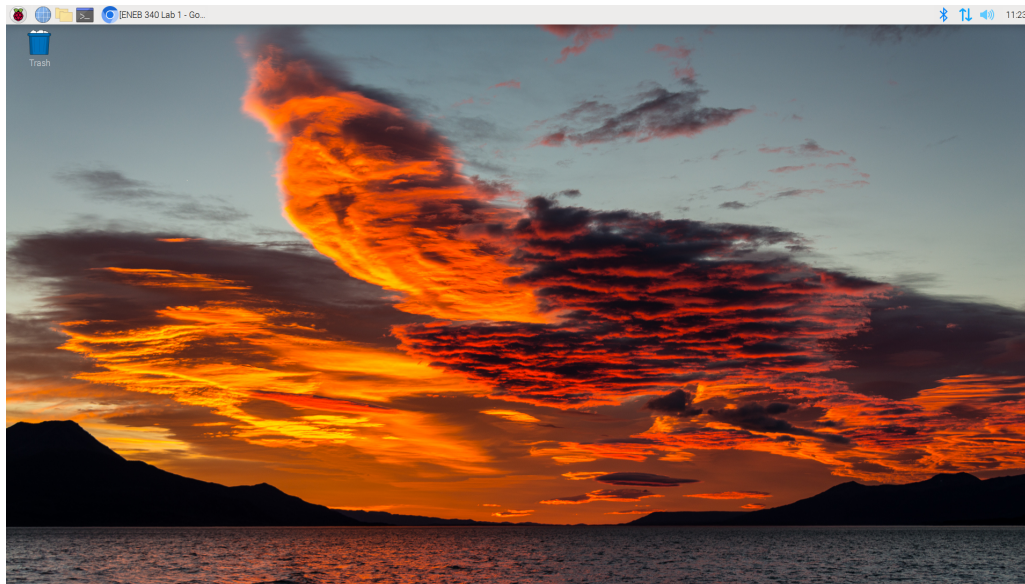


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Procedure:

First, I opened the Raspberry Pi Kit and plugged in all the necessary components and connected it to the monitor. After restarting the computer and logging in, I created a Raspberry Pi account. After which, I encountered the Linux OS desktop interface which is below.



*GUI interface of Raspberry Pi*

Then I opened up the Raspberry Pi terminal/shell to input the “ls -l” command. This allowed me to see all of the subdirectories under my main directory “r374”. The screenshot of all the subdirectories is below.

```
r374@raspberrypi: ~  
File Edit Tabs Help  
r374@raspberrypi:~ $ ls -l  
total 36  
drwxr-xr-x 2 r374 r374 4096 May  2 20:16 Bookshelf  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Desktop  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Documents  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Downloads  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Music  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Pictures  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Public  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Templates  
drwxr-xr-x 2 r374 r374 4096 Aug 31 10:51 Videos  
r374@raspberrypi:~ $
```

Afterwards, I used the 'pwd' command and used the file explorer application to view all the directories above my main directory. I illustrated the organization of the directories and files in a directory tree below.

### ***Directory Tree***

- ☐ File System Root
  - ☐ bin
  - ☐ boot
  - ☐ dev
  - ☐ ...
  - ☐ home
    - ☐ R374
      - ☐ Bookshelf
      - ☐ Desktop
      - ☐ Documents
      - ☐ Downloads
      - ☐ ...

### **Conclusion**

In this lab, I learned how to configure a Raspberry Pi board and all of its components to run on a display (monitor). I also learned how to apply some of the linux commands I learned in class into the shell program in order to find and learn where my directories and files are in relation to the root directory. Finally, I learned how to install a screenshot tool from the Raspberry Pi toolkit and use it to take and save images from my desktop screen.

In the future, I would like to try more commands to do more complex procedures like creating source codes and compiling them.