Foundations of Coding Lab 1 – Linux Introduction

This lab will demonstrate your understanding of the basic unix commands. To get full credit, you must do all of the objectives below:

1. Create a lab1sub folder under your 275 folder.
2. In your lab1sub folder, create three folders titled folder1, folder2, and folder3
3. In folder1, create a file called ex1.
    a. Edit ex1 as follows
        i. Line 1: Your Name
        ii. Line 2: Foundations of Coding 275 – (your section)
        iii. Line 3: Lab 1
        iv. Line 4: The Date
4. In folder2, create a file called ex2.py
    a. Edit ex2.py as follows
        i. Write a line that prints out the phrase “hello 275” in the terminal
    b. Test that ex2.py works with the correct terminal command.
5. Once you have done this, raise your hand and call the instructor over.
    a. The instructor will watch you move ex2.py from folder2 into folder3 and then run ex2.py again.

Once all of the below has been completed, complete a lab writeup and submit it on the course website. An example will be demonstrated below:

Foundations of Coding Lab 1

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Abstract: In this lab we will demonstrate how to navigate the linux filesystem by using terminal commands. We will do this using Windows Subsystem for Linux or Multipass and using the command line in each program.

Step 1

Our goal is to create a lab1 submission folder called lab1sub in our 275 folder.

Approach

We will begin by changing directory to the 275 folder by using the cd command. Then, we will create our lab1sub folder using the make directory command.

Output

```
basmacij@DESKTOP-GE73OUM:~$ cd 275
basmacij@DESKTOP-GE73OUM:~/275$ mkdir lab1sub
basmacij@DESKTOP-GE73OUM:~/275$ ls
lab1  lab1sub
```

Step 2

… etc,

Step 3

… etc,

Step 4

… etc,

Step 5

… etc,

Conclusion

In this report, we set out to create a lab1 submission folder and navigate the linux filesystem. We did this by utilizing commands like cd, ls, mkdir, touch, and mv. Additionally, we managed to write basic python script using the editor command and ran it using the python3 command. We also learned how to navigate up one level in the file system using the .. locator.