# Lab01 – Linux Commands

## ELEC ENG 3EY4

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As a future member of the engineering profession, the student is responsible for performing the required work in an honest manner, without plagiarism and cheating. Submitting this work with my name and student number is a statement and understanding that this work is my own and adheres to the Academic Integrity Policy of McMaster University and the Code of Conduct of the Professional Engineers of Ontario. Submitted by [Brent Menheere, menheerb, 400362843]

## Steps 1-4:

#### Step 7:

```
[root@localhost /]# cat MyCalendar.txt
March
August
July
February
October |
May
September
June
April
[root@localhost /]# cat MyFamily.txt
Brandon
Sandra
Peter
Jennifer
Graham
[root@localhost /]# cat MyDailySteps.txt
5000
1800
17000
560
900
[root@localhost /]# cat MyToDoList.txt
I make my bed in the morning
I eat pancakes for breakfast
I finish my homework in the evening
I go to diner later in the evening
[root@localhost /]#
```

### Python Codes: calculation.py and MyInfo.py

```
GNU nano 5.3
muml = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
num2 = int(input("Enter second number: "))
print("Hi, my name is Brent Menheere ")
print("Hi, my name is Bre
```

#### Step 10:

```
[root@localhost menheerb_backup]# python3.9 calculation.py
Enter first number: 2
Enter second number: 4
6
[root@localhost menheerb_backup]# python3.9 MyInfo.py
Hi, my name is Brent Menheere
I am in my third year of Electrical Engineering
My studnt number is 400362843
My MacID is menheerb
[root@localhost menheerb_backup]#
```

#### Steps 12-16:

```
[root@localhost home menheerb]# ls
[root@localhost home menheerb]# mv menheerb folderA menheerb textfiles
[root@localhost home menheerb]# ls
[root@localhost home menheerb]# cd ..
[root@localhost /]# ls
                                     MyDailySteps.txt proc srv
                                     MyFamily.txt
     lib
                                     MyToDoList.txt
                                                       run tmp
     lib64
                    MyCalendar.txt opt
                                                       sbin usr
[root@localhost /]# mv *.txt home_menheerb/menheerb_textfiles
[root@localhost /]# ls
                                lost+found mnt proc run srv tmp
media opt root sbin sys usr
bin dev home
                          lib
oot etc home_menheerb lib64 media
[root@localhost /]# cd home menheerb/menheerb textfiles
[root@localhost menheerb_textfiles]# ls
MyCalendar.txt MyDailySteps.txt MyFamily.txt MyToDoList.txt
[root@localhost menheerb textfiles]#
```

#### Figure 1 Step 12-13

```
[root@localhost menheerb_backup]# ls
calculation.py MyInfo.py
[root@localhost menheerb_backup]# mv calculation.py calculation_2#s.py
[root@localhost menheerb_backup]# ls
calculation_2#s.py MyInfo.py
```

#### Figure 2 Step 14

```
[root@localhost home_menheerb]# ls
menheerb_backup menheerb_folderA menheerb_folderB
[root@localhost home_menheerb]# mv menheerb_folderB menheerb_pythonfiles
[root@localhost home_menheerb]# ls
menheerb_backup menheerb_folderA menheerb_pythonfiles
[root@localhost home_menheerb]#
```

#### Figure 3 Step 15

```
[root@localhost home_menheerb]# mv menheerb_backup/*.py menheerb_pythonfiles
[root@localhost home_menheerb]# ls
menheerb_backup menheerb_pythonfiles menheerb_textfiles
[root@localhost home_menheerb]# menheerb_pythonfiles
sh: menheerb_pythonfiles: command not found
[root@localhost home_menheerb]# cd menheerb_pythonfiles
[root@localhost menheerb_pythonfiles]# ls
calculation_2#s.py MyInfo.py
```

Figure 4 Step 16

Steps 18-21 (Some trial and error takes place within this code, however all goals are achieved):

```
[root@localhost menheerb_backup]# ls
[root@localhost menheerb_backup]# touch Brent_Menheere
[root@localhost menheerb_backup]# touch menheerb_FileX
[root@localhost menheerb_backup]# touch menheerb_FileY
[root@localhost menheerb_backup]# ls
Brent Menheere menheerb_FileX menheerb_FileY
[root@localhost menheerb_backup]# cp menheerb_FileY Brent_Menheere
[root@localhost menheerb_backup]# is
Brent_Menheere menheerb_FileX menheerb_FileY
[root@localhost menheerb_backup]# cp Brent_Menheere home_menheerb_
Indicalhost menheerb_backup]# cp Menheere home_menheerb_
Indicalhost menheerb_backup]# cp Menheere home_menheerb_
Indicalhost menheerb_backup]# cp Menheere home_menheerb_
Indicalhost menheerb_backup]# cp Menheereb_
Indicalhost menheereb_backup]# cp Menheereb_
Indicalhost menheereb_backup]# cp Menheereb_
Indicalhost menheereb_backup]# cp Menheereb_
Indicalhost menheereb_
Indicalhost menheereb_backup]# cp Menheereb_
Indicalhost menheereb_
[root@localhost menheerb backup]# cp menheerb FileX home menheerb
[root@localhost menheerb backup]# cd ..
[root@localhost home menheerb]# ls
                                    menheerb_pythonfiles menheerb textfiles
[root@localhost home_menheerb]# cp menheerb_backup/Brent_Menheere home_menhe
[root@localhost home_menheerb]# ls
home menheerb menheerb backup menheerb pythonfiles menheerb textfiles
[root@localhost home_menheerb]# cp menheerb_backup/menheerb_Filex home_menhe
cp: cannot stat 'menheerb_backup/menheerb_Filex': No such file or directory
[root@localhost home_menheerb]# cp menheerb_backup/menheerb_FileX home_menhe
erb
[root@localhost home_menheerb]# ls
                                                                       menheerb pythonfiles menheerb textfiles
home menheerb menheerb backup
[root@localhost home_menheerb]# ls
home_menheerb menheerb_backup menheerb_pythonfiles menheerb_textfiles
[root@localhost home_menheerb]# cd menheerb_backup
[root@localhost menheerb_backup]# ls
Brent Menheere home menheerb menheerb FileX menheerb FileY
[root@localhost menheerb backup]# cd ...
[root@localhost home_menheerb]# cp menheerb_backup/menheerb_FileX home_menhe
erb
[root@localhost home_menheerb]# ls
home_menheerb menheerb_backup menheerb_pythonfiles menheerb_textfiles
[root@localhost home_menheerb]# rm home_menheerb
[root@localhost home_menheerb]# ls
[root@localhost home_menheerb]# cd menheerb_backup
[root@localhost menheerb_backup]# cp Brent_Menheere /home_menheerb
[root@localhost menheerb_backup]# cp menheerb_FileX /home_menheerb
[root@localhost menheerb_backup]# cd ..
```

```
[root@localhost menheerb_backup]# cd ..
[root@localhost home_menheerb]# ls
Brent_Menheere menheerb_backup menheerb_FileX menheerb_pythonfiles menheerb_textfiles
[root@localhost home_menheerb]# rm -r menheerb_backup
[root@localhost home_menheerb]# ls
Brent_Menheere menheerb_FileX menheerb_pythonfiles menheerb_textfiles
[root@localhost home_menheerb]#
```

#### Steps 23-26:

```
[root@localhost menheerb_textfiles]# ls
MyCalendar.txt MyDailySteps.txt MyFamily.txt MyToDoList.txt
[root@localhost menheerb_textfiles]# sort -M MyCalendar.txt
February
March
April
May
June
July
August
September
October
[root@localhost menheerb_textfiles]# sort -r MyFamily.txt
Sandra
Peter
Jennifer
Graham
Brandon
```

```
[root@localhost menheerb_textfiles]# sort MyFamily.txt > MyFamily_alphaOrder.txt
[root@localhost menheerb_textfiles]# cat MyFamily_alphaOrder.txt
Brandon
Graham
Jennifer
Peter
Sandra
[root@localhost menheerb_textfiles]# ls
MyCalendar.txt MyDailySteps.txt MyFamily_alphaOrder.txt MyFamily.txt MyToDoList.txt
[root@localhost menheerb_textfiles]# rm MyFamily.txt
[root@localhost menheerb_textfiles]# ls
MyCalendar.txt MyDailySteps.txt MyFamily_alphaOrder.txt MyToDoList.txt [root@localhost menheerb_textfiles]# sort -n MyDailySteps.txt
560
900
1800
5000
17000
[root@localhost menheerb_textfiles]#
```

#### Steps 28-31:

#### Word Counts:

#### Sandra - 1

my - 4 (Please note, the Lab manual specifies "my" with lowercase letters, thus this count is specifically for "my" and does not include "My")

#### evening - 2