EE 3EY4

Lab 1

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Stefan Tosti - Tostis - 400367761 - L05

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Objective 3

Steps 1 - 4

```
Loading...

Welcome to Fedora 33 (riscv64)

[root@localhost ~]# mkdir home_Tostis
[root@localhost ~]# ls
bench.py  hello.c  home_Tostis
[root@localhost ~]# ls -a
.    .bash_logout  .bashrc    .cshrc      hello.c      .tcshrc
..   .bash_profile bench.py  .fldev_cfg  home_Tostis
[root@localhost ~]# cd home_Tostis
[root@localhost home_Tostis]# mkdir Tostis_folderA
[root@localhost home_Tostis]# mkdir Tostis_folderB
[root@localhost home_Tostis]# mkdir Tostis_backup
[root@localhost home_Tostis]# ls
Tostis_backup  Tostis_folderA  Tostis_folderB
[root@localhost home_Tostis]#
```

Step 7

```
[root@localhost ~]# ls
bench.py   home_Tostis      MyDailySteps.txt   MyToDoList.txt
hello.c    MyCalendar.txt   MyFamily.txt
[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 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 dinner later in the evening

[root@localhost ~]#
```

Calculation.py & MyInfo.py

```
[root@localhost Tostis_backup]# pwd
/root/home_Tostis/Tostis_backup
[root@localhost Tostis_backup]# ls
calculation.py   MyInfo.py
[root@localhost Tostis_backup]# cat calculation.py
numberFirst = int(input("First number: "))
numberSecond = int(input("Second number: "))
print("The sum of your two numbers is: ", (numberFirst + numberSecond))

[root@localhost Tostis_backup]# cat MyInfo.py
print("Hi, my name is Stefan Tosti")
print("I am in my third year of Electrical Engineering")
print("My student number is 400367761")
print("My MacID is Tostis")

[root@localhost Tostis_backup]#
```

Step 10

```
[root@localhost Tostis_backup]# python3 calculation.py
First number: 13
Second number: 7
The sum of your two numbers is:  20
[root@localhost Tostis_backup]# python3 MyInfo.py
Hi, my name is Stefan Tosti
I am in my third year of Electrical Engineering
My student number is 400367761
My MacID is Tostis
[root@localhost Tostis_backup]#
```

Steps 12 - 16

```
[root@localhost home_Tostis]# ls
Tostis_backup  Tostis_folderA  Tostis_folderB
[root@localhost home_Tostis]# mv Tostis_folderA Tostis_textfiles
[root@localhost home_Tostis]# ls
Tostis_backup  Tostis_folderB  Tostis_textfiles
[root@localhost home_Tostis]# cd ~
[root@localhost ~]# ls
bench.py  home_Tostis     MyDailySteps.txt  MyToDoList.txt
hello.c   MyCalendar.txt  MyFamily.txt
[root@localhost ~]# mv *.txt ~/home_Tostis/Tostis_textfiles
[root@localhost ~]# cd home_Tostis/Tostis_textfiles
[root@localhost Tostis_textfiles]# ls
MyCalendar.txt  MyDailySteps.txt  MyFamily.txt  MyToDoList.txt
[root@localhost Tostis_textfiles]# cd ~/home_Tostis/Tostis_backup
[root@localhost Tostis_backup]# ls
calculation.py  MyInfo.py
[root@localhost Tostis_backup]# mv calculation.py calculation_2#s.py
[root@localhost Tostis_backup]# ls
calculation_2#s.py  MyInfo.py
[root@localhost Tostis_backup]# cd ~/home_Tostis
[root@localhost home_Tostis]# mv Tostis_folderB Tostis_pythonfiles
[root@localhost home_Tostis]# ls
Tostis_backup  Tostis_pythonfiles  Tostis_textfiles
[root@localhost home_Tostis]# cd ~/home_Tostis/Tostis_backup
[root@localhost Tostis_backup]# ls
calculation_2#s.py  MyInfo.py
[root@localhost Tostis_backup]# mv *.py ~/home_Tostis/Tostis_pythonfiles
[root@localhost Tostis_backup]# cd ~/home_Tostis/Tostis_pythonfiles
[root@localhost Tostis_pythonfiles]# ls
calculation_2#s.py  MyInfo.py
[root@localhost Tostis_pythonfiles]# 
```

Steps 18 - 21

```
[root@localhost ~]# cd ~/home_Tostis/Tostis_backup
[root@localhost Tostis_backup]# touch Stefan_Tosti
[root@localhost Tostis_backup]# touch Tostis_FileX
[root@localhost Tostis_backup]# touch Tostis_FileY
[root@localhost Tostis_backup]# ls
Stefan_Tosti  Tostis_FileX  Tostis_FileY
[root@localhost Tostis_backup]# cat Tostis_FileY>Stefan_Tosti
[root@localhost Tostis_backup]# cp Stefan_Tosti ~/home_Tostis
[root@localhost Tostis_backup]# cp Tostis_Filex ~/home_Tostis
cp: cannot stat 'Tostis_Filex': No such file or directory
[root@localhost Tostis_backup]# cp Tostis_FileX ~/home_Tostis
[root@localhost Tostis_backup]# cd ~
[root@localhost ~]# ls ~/home_Tostis
Stefan_Tosti  Tostis_backup  Tostis_FileX  Tostis_pythonfiles  Tostis_textfiles
[root@localhost ~]# rm -r ~/home_Tostis/Tostis_backup
[root@localhost ~]# ls ~/home_Tostis
Stefan_Tosti  Tostis_FileX  Tostis_pythonfiles  Tostis_textfiles
[root@localhost ~]#
```

Steps 23 - 26

```
[root@localhost ~]# sort -M ~/home_Tostis/Tostis_textfiles/MyCalendar.txt
February
March
April
May
June
July
August
September
October
[root@localhost ~]# sort -r ~/home_Tostis/Tostis_textfiles/MyFamily.txt
Sandra
Peter
Jennifer
Graham
Brandon

[root@localhost ~]# cd ~/home_Tostis/Tostis_textfiles
[root@localhost Tostis_textfiles]# sort MyFamily.txt>MyFamily_alphaOrder.txt
[root@localhost Tostis_textfiles]# rm MyFamily.txt
[root@localhost Tostis_textfiles]# sort -n MyDailySteps.txt

560
900
1800
5000
17000
[root@localhost Tostis_textfiles]#
```

Steps 28 - 31

```
[root@localhost ~]# cd ~
[root@localhost ~]# ls ~/home_Tostis/Tostis_textfiles
MyCalendar.txt  MyDailySteps.txt  MyFamily_alphaOrder.txt  MyToDoList.txt
[root@localhost ~]# ls ~/home_Tostis/Tostis_pythonfiles
calculation_2#s.py  MyInfo.py
[root@localhost ~]# grep -r Sandra ~
/root/home_Tostis/Tostis_textfiles/MyFamily_alphaOrder.txt:Sandra
[root@localhost ~]# grep -r my ~
/root/home_Tostis/Tostis_textfiles/MyToDoList.txt:I make my bed in the morning
/root/home_Tostis/Tostis_textfiles/MyToDoList.txt:I finish my homework in the evening
/root/home_Tostis/Tostis_pythonfiles/MyInfo.py:print("Hi, my name is Stefan Tosti")
/root/home_Tostis/Tostis_pythonfiles/MyInfo.py:print("I am in my third year of Electrical En
gineering")
[root@localhost ~]# grep -r evening ~
/root/home_Tostis/Tostis_textfiles/MyToDoList.txt:I finish my homework in the evening
/root/home_Tostis/Tostis_textfiles/MyToDoList.txt:I go to dinner later in the evening
[root@localhost ~]#
```

Please note - the laboratory manual did not specify that our searches should not be case sensitive, thus my search was strictly limited to "my" with a lowercase "m" as stated in the manual.

If we wanted to search for "my" without it being case sensitive then the command to be used is… *grep -r -i my ~*

Word	Number Found
Sandra	1
my	4
evening	2