ELECENG 3EY4: Electrical System Integration Project

Lab01_Linux Commands

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Step 1-4

```
Loading...
Welcome to Fedora 33 (riscv64)
[root@localhost ~]# mkdir home_wangj430
[root@localhost ~]# ls
pench.py hello.c
[root@localhost ~]#
                          ls -a
                               .bashrc
        .bash_logout
                                                .cshrc
                                                                       hello.c
                                            .fldev_cfg
       .bash_profile
                            bench. py
 root@localhost ~]# cd home_wangj430
root@localhost home_wangj430]# mkdir wangj430_folderA
 root@localhost home_wangj430]# mkdir wangj430_folderBroot@localhost home_wangj430]# mkdir wangj430_backup
 root@localhost
[root@localhost home_wangj430]# 1s
 root@localhost home_wangj430]#
```

Step 6-8

```
[root@localhost ~]# cat MyCalendar.txt
March
August
July
February
0ctober
May
September
June
April
[root@localhost \sim]# 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 ~]#
```

Step 9-11

```
[root@localhost ~]# cd home_wangj430/wangj430_backup
[root@localhost wangj430_backup]# python

Python 3.9.0 (default, Nov 26 2020, 00:00:00)
[GCC 10.2.1 20201016 (Red Hat 10.2.1-6)] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>>
[root@localhost wangj430_backup]# nano calculation.py
```

```
[root@localhost wangj430_backup]# nano MyInfo.py
```

```
[root@localhost wangj430_backup]# python calculation.py
1st number is:1
2nd number is:2
3
[root@localhost wangj430_backup]# python MyInfo.py
Hi, my name is Junbo Wang
I am in my third year of Electrical Engineering
My student number is 400249823
My MacID is wangj430
[root@localhost wangj430_backup]#
```

calculation.py

```
GNU nano 5.3

Number1=int(input("1st number is:"))

Number2=int(input("2nd number is:"))

print(Number1+Number2)
```

MyInfo.py

```
GNU nano 5.3

print("Hi, my name is Junbo Wang")

print("I am in my third year of Electrical Engineering")

print("My student number is 400249823")

print("My MacID is wangj430")
```

Step 12-17

```
[root@localhost
                wangj430 backup]# cd
                home wangj430]# mv wangj430 folderA wangj430 textfiles
[root@localhost
[root@localhost
                home wangj430]# ls
                  wangj430 folderB
wangj430 backup
                                      wangj430 textfiles
                home_wangj430]# cd..
[root@localhost
sh: cd..: command not found
                home wangj430]# cd ...
[root@localhost
[root@localhost
                 ]# mv *.txt home_wangj430/wangj430_textfiles
[root@localhost
                 ]# 1s home wangj430/wangj430 textfiles
MyCalendar.txt
                 MyDailySteps.txt
                                     MyFamily.txt
                                                     MyToDoList.txt
```

```
[root@localhost
                 home_wangj430]# cd
                     mv *.txt home wangj430/wangj430 textfiles
[root@localhost
                 ~]#
                 ]# ls home_wangj430/wangj430 textfiles
[root@localhost
MyCalendar.txt
                  MyDailySteps. txt
                                      MyFamily. txt
                                                      MyToDoList.txt
                 ~]#
[root@localhost
[root@localhost
                  ]# cd home wangj430/wangj430 backup
[root@localhost
                 wangj430 backup]# mv calculation.py calculation 2#s.py
[root@localhost
                 wang j430 backup]#
                                   1s
                     MyInfo. py
calculation 2#s.py
[root@localhost
                 wangj430 backup]# cd ...
                 home wangj430]# mv wangj430 folderB wangj430 pythonfiles
[root@localhost
[root@localhost
                 home_wangj430]# 1s
wang j430 backup
                   wangj430 pythonfiles
                                           wangj430 textfiles
[root@localhost
                 home_wangj430]# cd wangj430_backup
                 wangj430_backup]# mv *.py ../wangj430 pythonfiles
[root@localhost
[root@localhost
                 wangj430_backup]# ls ../wangj430_pythonfiles
calculation 2#s.py
                     MyInfo. py
```

Step 18-22

```
[root@localhost
                 wangj430 backup]#
                                    touch
                                           Junbo Wang
[root@localhost
                 wangj430_backup]#
                                    touch
                                           wangj430_FileX
                                           wangj430 FileY
[root@localhost
                 wang j430 backup]#
                                    touch
                                        wang j430 FileY Junbo_Wang
[root@localhost
                 wang j430 backup]#
                                    ср
                                        Junbo Wang ~/home wangj430
[root@localhost
                 wang j430 backup]#
                                    СD
                 wang j430 backup]#
                                        wangj430 FileX ~/home wangj430
Lroot@localhost
                                    ср
[root@localhost
                 wangj430 backup]#
                                    cd
[root@localhost
                 ]# cd home wangj430
[root@localhost
                 home wangj430]#
                                 rm -r wangj430 backup
[root@localhost
                 home wang j430]#
                                 1s
Junbo Wang
              wangj430 FileX
                                wangj430_pythonfiles wangj430_textfiles
```

```
[root@localhost home_wangj430]# cd wangj430_textfiles
[root@localhost wangj430_textfiles]# sort -M MyCalendar.txt

February
March
April
May
June
July
August
September
October
```

```
[root@localhost wangj430_textfiles]# sort -r MyFamily.txt
Sandra
Peter
Jennifer
Graham
Brandon
```

```
[root@localhost wangj430_textfiles]# sort MyFamily.txt>MyFamily_alpha0rder.txt
[root@localhost wangj430_textfiles]# ls
MyCalendar.txt MyDailySteps.txt MyFamily_alpha0rder.txt MyFamily.txt MyToDoList.txt
[root@localhost wangj430_textfiles]# cat MyFamily_alphs0rder.txt
cat: MyFamily_alphs0rder.txt: No such file or directory
[root@localhost wangj430_textfiles]# cat MyFamily_alpha0rder.txt

Brandon
Graham
Jennifer
Peter
Sandra
```

```
[root@localhost wangj430_textfiles]# rm MyFamily.txt
[root@localhost wangj430_textfiles]# ls
MyCalendar.txt MyDailySteps.txt MyFamily_alpha0rder.txt MyToDoList.txt
[root@localhost wangj430_textfiles]# sort -n MyDailySteps.txt

560
900
1800
5000
17000
```

```
[root@localhost ~]# grep -r Sandra ~
/root/home_wangj430/wangj430_textfiles/MyFamily_alpha0rder.txt:Sandra
[root@localhost ~]# grep -r my
/root/home_wangj430/wangj430_textfiles/MyToDoList.txt:I make my bed in the morning
/root/home_wangj430/wangj430_textfiles/MyToDoList.txt:I finish my homework in the evening
/root/home_wangj430/wangj430_pythonfiles/MyInfo.py:print("Hi, my name is Junbo Wang")
/root/home_wangj430/wangj430_pythonfiles/MyInfo.py:print("I am in my third year of Electrical Engineering")
[root@localhost ~]# grep -r evening
/root/home_wangj430/wangj430_textfiles/MyToDoList.txt:I finish my homework in the evening
/root/home_wangj430/wangj430_textfiles/MyToDoList.txt:I go to dinner later in the evening
```

Sandra: 1 time

My: 4 times

Evening: 2 times