

2.move files to one folder

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ ls

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ touch abc.txt def.txt ghi.txt jkl.txt

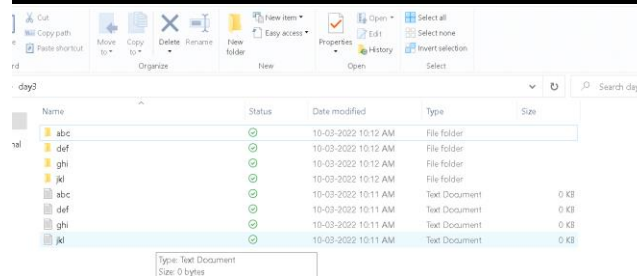
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ ls
abc.txt  def.txt  ghi.txt  jkl.txt

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ for files in *.txt
do
    foldername=`echo $files | awk -F. '{print $1}'`;
    echo $files;
    echo $foldername;
    printf "\n";
    if [ -d $foldername ]
    then
        rm -r $foldername;
    fi
    mkdir $foldername;
    cp $files $foldername/$files;
done
abc.txt
abc

def.txt
def

ghi.txt
ghi

jkl.txt
jkl
```



3.append current date to log files.

```

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ touch abc.log.1 def.log.1 ghi.log.1 jkl.log.1 mno.log.1

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ ls
abc.log.1  def.log.1  ghi.log.1  jkl.log.1  mno.log.1  prblems2/

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ date=$(date +%Y%m%d)
for file in * ; do
    basename=${file%. *}
    extension=${file##*.}
    mv "$file" "$basename"_"$date.$extension"
done

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$ ls
abc.log.1_20220310.1  ghi.log.1_20220310.1  mno.log.1_20220310.1
def.log.1_20220310.1  jkl.log.1_20220310.1  prblems2_20220310.prblems2/

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Desktop/day3
$

```

Share View

day3

Name	Status	Date modified	Type	Size
prblems2_20220310.prblems2	✓	10-03-2022 10:18 AM	File folder	
abclog.1_20220310.1	✓	10-03-2022 10:19 AM	1 File	0 KB
deflog.1_20220310.1	✓	10-03-2022 10:19 AM	1 File	0 KB
ghilog.1_20220310.1	✓	10-03-2022 10:19 AM	1 File	0 KB
jkllog.1_20220310.1	✓	10-03-2022 10:19 AM	1 File	0 KB
mno.log.1_20220310.1	✓	10-03-2022 10:19 AM	1 File	0 KB

8. access client ip

```

MINGW64:/c:/Users/chand/OneDrive/Documents/Bridgelabz/linux-content
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $1}' | sort | wc -l
3210

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $1}' | sort | uniq | head -4
10.56.0.3
10.56.1.3
10.56.10.2
10.56.19.3

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$

```

7.list of web response

MINGW64:/c/Users/chand/OneDrive/Documents/Bridgelabz/linux-content

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $9}' | sort | wc -l
3210

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $9}' | sort | uniq | head -4
200
206
304

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$
```

6. list of urls

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $15}' | sort | uniq | head -4
+http://www.google.com/bot.html)"
+info@netcraft.com)"
10.0;

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $15}' | sort | uniq | head -6
+http://www.google.com/bot.html)"
+info@netcraft.com)"
10.0;
4.4.2;
4.4.3;

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $15}' | sort | uniq | tail -6
6.1;
8.0.0;
Linux;
Mobile;
http://cloudsystemnetworks.com)"
x86_64)

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | awk '{print $15}' | sort | uniq | tail -6
6.1;
8.0.0;
Linux;
Mobile;
http://cloudsystemnetworks.com)"
x86_64)
```

5. printing only urls

MINGW64:/c/Users/chand/OneDrive/Documents/Bridgelabz/linux-content

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat access.log | grep http:// | sort | uniq | head -10 | awk '{print $15}'
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"
http://cloudsystemnetworks.com)"
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"
+http://www.google.com/bot.html)"

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$
```

10. execution status

MINGW64:/c/Users/chand/OneDrive/Documents/Bridgelabz

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ echo hello world
hello world

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ echo the execution status is $?
the execution status is 0

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ ls
5a.sh          add.sh          forloop1.sh     gitdemo/        p2.sh          while.sh
D3/            days.sh         forloop2.sh     ifloop.sh       p3.sh
D5/            float.sh        forloop2a.sh    linux-content/  random.sh
Helloworld.java forloop.sh      function.sh     pl.sh           single.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ echo the execution status is $?
the execution status is 0

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$
```

13. process list printing

MINGW64:/c/Users/chand/OneDrive/Documents/Bridgelabz

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ ps
  PID   PPID   PGID   WINPID  TTY      UID    STIME  COMMAND
  2837   1836   2837   19372   pty0     197609 15:00:51 /usr/bin/ps
  1835     1   1835    1420   ?        197609 08:23:34 /usr/bin/mintty
  1836   1835   1836   14672   pty0     197609 08:23:34 /usr/bin/bash

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ ps -elf
  UID     PID   PPID  TTY      STIME  COMMAND
  chand   1835     1  ?        08:23:34 /usr/bin/mintty
  chand   2841   1836 pty0     15:00:55 /usr/bin/ps
  chand   1836   1835 pty0     08:23:34 /usr/bin/bash

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$
```

14. data analysis

i)

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv | awk '{if($4>10000) print $2 " " " $7}'
EmployeeName TotalPay
NATHANIEL 567595
GARY 538909
ALBERT 335279
CHRISTOPHER 332343
PATRICK 326373
DAVID 316285
ALSON 315981
DAVID 307899
JOANNE 302377
PATRICIA 297608
EDWARD 294580
```

ii

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv | grep CAPTAIN | awk '{sum+=$7 } END {print sum}'
1171796

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv | grep CAPTAIN
2 GARY CAPTAIN 155966 245131 137811 538909 538909
3 ALBERT CAPTAIN 212739 106088 16452 335279 335279
12 PATRICIA CAPTAIN 99722 87082 110804 297608 297608
```

iii

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv | awk '{if($5>=7000 && $5<=10000) print $3 " " $5}'
DEPUTYCHIEF 9737
ASSTDEPUTY 8601
```

iv

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv
Id EmployeeName JobTitle BasePay OvertimePay OtherPay TotalPay TotalPayBenefits
1 NATHANIEL GM 167411 0 400184 567595 567595
2 GARY CAPTAIN 155966 245131 137811 538909 538909
3 ALBERT CAPTAIN 212739 106088 16452 335279 335279
4 CHRISTOPHER MECHANIC 77916 56120 198306 332343 332343
5 PATRICK DEPUTYCHIEF 134401 9737 182234 326373 326373
6 DAVID ASSTDEPUTY 118602 8601 189082 316285 316285
7 ALSON BATTALIONCHIEF 92492 89062 134426 315981 315981
8 DAVID DEPUTYDIRECTOR 256576 0 51322 307899 307899
10 JOANNE CHIEF 285262 0 17115 302377 302377
12 PATRICIA CAPTAIN 99722 87082 110804 297608 297608
13 EDWARD EXECUTIVE 294580 0 0 294580 294580

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv | awk '{sum += $4 } END {print sum/NR}'
157972

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/linux-content (master)
$ cat data.csv | awk '{sum += $4 } END {print sum/11}'
172333
```

15. finding the difference between directories.

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ mkdir original updated

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ touch original-file.sh updated-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cp original-file.sh original

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cp updated-file.sh updated

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cd original

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/original
$ ls
original-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/original
$ cd ..

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cd updated

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/updated
$ ls
updated-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/updated
$ cd ..

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ diff original updated
Only in original: original-file.sh
Only in updated: updated-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ mkdir original-backup
```

```
cp -r file specified, omitting directory 'original'

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cp -R original/ original-backup/

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ notepad original-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ diff updated/ original-backup/
Only in original-backup/: original
Only in updated/: updated-file.sh
```

```
chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cd original

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/original
$ ls -l
total 0
-rw-r--r-- 1 chand 197609 0 Mar 10 15:58 original-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/original
$ cd ..

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cd updated

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/updated
$ ls -l
total 0
-rw-r--r-- 1 chand 197609 0 Mar 10 15:58 updated-file.sh

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/updated
$ cd ..

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz
$ cd original-backup

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/original-backup
$ ls -l
total 0
drwxr-xr-x 1 chand 197609 0 Mar 10 16:02 original/

chand@LAPTOP-4LR2AKA9 MINGW64 ~/OneDrive/Documents/Bridgelabz/original-backup
$
```

