

**** ACCESS.LOG PRACTICE****

```
@DELL@DELLP-PC MINGW64 ~/Desktop
```

```
$ cd terminalCommands
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands
```

```
$ cd linux-content
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)
```

```
$ cat access.log
```

Q) Print last 4 frequently access urls count in sorted order from access.log

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)
```

```
$ cat access.log | awk '{print $11}' | sort | uniq -c | tail -4
```

```
1141 "https://fundoopush-dev.bridgelabz.com/dashboard/article"  
1 "https://fundoopush-dev.bridgelabz.com/dashboard/hashtags/animals"  
5 "https://fundoopush-dev.bridgelabz.com/dashboard/jobs" 1475  
"https://fundoopush-dev.bridgelabz.com/login"
```

Q) Print last 4 frequently access unique urls at particular hours from access.log

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)
```

```
$ cat access.log | awk '{print $7}' | sort | uniq -c | tail -4
```

```
1 /vbulletin5/  
199 /vendor.js  
15 /vendor.js.map  
4 /wp-login.php
```

Q) Print list of web response code count in the unique sorted order at specific hours from access.log

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)
```

```
$ cat access.log | awk '{print $9}' | sort | uniq -c | sort -n 8 206
```

```
26 304  
3176 200
```

Q) print list of last 10 uniue sorted client IP from access.log

```
@DELL@DELLP-PC MINGW64 MINGW64 ~/terminalCommands/linux-content (master)
```

```
$ cat access.log | awk '{print $1}' | sort | uniq -c | tail -10
```

```
323 10.56.21.2  
251 10.56.22.3  
214 10.56.3.4  
9 10.56.34.4  
242 10.56.4.2  
7 10.56.44.4  
40 10.56.46.2  
168 10.56.5.2  
285 10.56.6.4  
186 10.56.9.3
```

****DATA ANALYSIS****

@DELL@DELLP-PC MINGW64 ~/terminalCommands/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
```

Q) What is aggregate Totalpay of employees whose jobtitle is 'CAPTAIN'

@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)

```
$ cat data.csv | grep -i 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
```

@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)

```
$ cat data.csv | grep -i captain | awk '{print $7}' 538909
335279
297608
```

@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)

```
$ cat data.csv | grep -i captain | awk '{sum+=$7} END {print sum}' 1171796
```

Q) Print the average Basepay

@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)

```
$ cat data.csv | awk '{print $4}'
BasePay
167411
155966
212739
77916
134401
118602
92492
256576
285262
99722
294580
```

@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)

```
$ cat data.csv | awk '{sum += $4} END {print sum/NR}' 157972
```

Q) print employee Name and Totalpay who has Basepay greater than 10000

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/linux-content (master)
$ cat data.csv | awk '$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
```

**** find the difference between original file and the updated file
Apply change to the original file****

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mkdir original
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mkdir updated
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ nano -T 3 original-file.sh
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mv original-file.sh original
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ nano -T 3 uptaded-file.sh
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mv uptaded-file.sh updated
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$
```

****MOVE FILES FROM ONE FOLDER TO RESPECTIVE FOLDER****

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ touch abc.txt def.txt ghi.txt jkl.txt
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mkdir abc def ghi jkl
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ ls
abc/   abc.txt  def/   def.txt  ghi/   ghi.txt  jkl/   jkl.txt  original/  updated/
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mv abc.txt abc
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mv def.txt def
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mv ghi.txt ghi
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ mv jkl.txt jkl
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ ls
abc/   def/   ghi/   jkl/   original/  updated/
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$
```

**** CHECK FOLDER EXIST OR NOT ****

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ touch aaa.txt bbb.txt
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ cat createfolder.sh
#!/bin/bash
for file in `ls *.txt`; do
foldername=`echo $file | awk -F. '{print $1}'`; #echo
"checking if directory already exist started"; if [ -d
$foldername ];
then
rm -R $foldername; fi
#echo creating folder {$foldername}; mkdir
$foldername;
#echo copied {$file} to {$foldername}/; cp
$file $foldername;
done
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ ./createfolder.sh
```

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands/Day3
$ ls
Raj/  sunil.txt  aaa/  aaa.txt  abc/  bbb/  bbb.txt  createfolder.sh*  def/  ghi/  jkl/
original/  updated/
```

*****:~::~*****

```
@DELL@DELLP-PC MINGW64 ~/terminalCommands
$ mkdir Day3
mkdir: cannot create directory 'Day3' : File exists
```

*****:~::~*****