

WEEK 1 ASSIGNMENT SOLUTIONS

1) Moving Files from one Folder to Another Folder

```
for file in `ls *.txt`;
do
    folderName=`echo $file | awk -F. '{print $1}'`;
    mkdir $folderName;
    mv $file $folderName;
done
```

2) Appending Date to File Name

```
for file in `ls *.log.1`;
do
    echo $file; name=${file%%.*};
    Date=`date %d%m%Y`;
    ext=${file#*.}; newFile=${name}${Date}.${ext};
    mv $file $newFile;
done
```

3) Data Analysis/Manipulation

- a)

```
awk '{
    if($4>10000)
        print$2" "$7
    }' data.csv
```
- b)

```
cat Day3Probs01data.csv | grep -v CAPTAIN |
    awk '{sum+=$7} END {print sum}'
```
- c)

```
awk '{
    if($5>7000 && $5<10000)
        Print $3" "$5
    }' Day3Probs01data.csv
```
- d)

```
awk '{sum+= $4} END {print sum/NR}'
Day3Probs01data.csv
```

4) Check 'Hello' and 'ls' Execution

```
>Hello
echo $?
ls
echo $?
```

5) Set Environment Variable

```
If[ usersecret -ne ]; then
    echo "Already Set"
else
    export usersecret = "dH34xJaa23"
fi
```

6) Find 'systemd' in Multiple Files

```
#!/bin/bash
cd /var/log
for file in $(ls *.log)
do
    count=$(grep -o -i systemd $file | wc -l)
    if [ $count -ne 0 ]
    then
        echo -e $file"\t"$count
    fi
done
```

7) Create Process table and View

```
ps -elf | awk '{print $2" "$3" "$15" "$5" "$6}'
```

8) Print last 4 Frequently Used URLs in a file in Sorted Order

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

9) Print Last 4 unique URL's count used at particular Hour

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

10) Print Last 10 Unique sorted Client IP

```
awk '{print $26}' access.log | sort | uniq | tail -10
```

11) Print List of Web Response Code

```
Cat access.log | awk '{print $9}' | sort | uniq -c
```

12) Check for Folder

```
directory=~/.TerminalCommands/Day1LinuxCommands  
[[ -d $directory ]] && echo "FILE EXISTS"  
[ ! -d $directory ] && mkdir NewFolder
```

13) Folder Backup

```
mkdir original  
mkdir updated  
cd original  
nano original-file.sh  
cd ..  
cd updated  
nano updated-file.sh  
diff /TerminalCommand/original/original-file.sh  
updated-file.sh  
cp -r ~/TerminalCommand/original  
~/TerminalCommand/original-backup  
cd ..  
cd original  
Nano original-file.sh  
diff /TerminalCommand/original/original-file.sh  
updated-file.sh
```