Experiment 6

25th March 2019

<u> </u>	To write and exceute basis scripts.
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1. Write a shell script that displays a special listing showing the permissions, size filename and last modification time of filename supplied as arguments. Provide suitable headers using the printf command.

To write and execute hash scripts

```
if [[ $# -eq 0 ]]
t.hen
    echo "No file specified as an argument"
    exit
fi
for file in $*
do
    if [[ !(-a $file) ]]
    t.hen
         echo "Enter a valid files as arguments"
         exit
    fi
done
for file in $*
do
    NAME=`basename $file`
    PERMS=`ls -lah $file | awk -F " " '{print $1}'`
    SIZE=`ls -lah $file | awk -F " " '{print $5}'`
    DATE=`ls -lah $file | awk -F " " '{print $6 " " $7 " "
$8 }'`
```

```
printf "The name of file is: $NAME\nThe last modified
date is: $DATE"
    printf "\nThe permissions are: $PERMS\nThe size is:
$SIZE\n\n"
done
```

===============end

Output:

2. Write a script that compares two directories dir1 and dir2(supplied as arguments) and copies to dir1 from dir2 every file that is not present in dir1.

```
if [[ $# -ne 2 ]]
then
    echo "Enter two directories as argument"
    exit
fi

if [[ !(-d $1 && -d $2) ]]
```

```
then
    echo "Enter valid directories"
    exit

fi

NAME2=`basename $2`
diff $1 $2 | grep -w "$NAME2" | awk -F ": " '{print $2}' >>
b.temp
while read line
do
    cp "$2/$line" $1
done < b.temp
rm b.temp</pre>
```

===============end

Output:

3. Write a shell script that accepts two file names as arguments, checks if the permissions for these files are identical and if the permissions are identical, output common permissions and otherwise output each file name followed by its permissions.

```
if [[ $# -ne 2 ]]
then
    echo "Enter two files as argument"
    exit
```

```
fi
if [[ !(-a $1 && -a $2) ]]
t.hen
    echo "Enter valid files"
        exit
fi
PERMS1=`ls -lah $1 | awk -F " " '{print $1}'`
PERMS2=`ls -lah $2 | awk -F " " '{print $1}'`
if [[ $PERMS1 == $PERMS2
                           11
then
    echo "The common permission is: $PERMS1"
else
    echo "The permission for $1 is: $PERMS1"
    echo "The permission for $2 is: $PERMS2"
fi
```

=================end

Output:

4. Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not. If they are same then second file should be deleted.

```
if [[ $# -ne 2 ]]
then
        echo "Enter two files as argument"
        exit
fi

if [[ !(-f $2 && -f $2) ]]
then
        echo "Enter valid files"
        exit
fi

(cmp -s $1 $2) && (rm $2; echo "Deleted repeated file") ||
(echo "Different files...not deleted")
```

Output:

```
x protonegative@fedora → -/work/BashScr / master • bash bash_2_4.sh exec file
Deleted repeated file
protonegative@fedora → -/work/BashScr / master • bash bash_2_4.sh exec ~/HnxMendn.jpeg
Different files..not deleted
protonegative@fedora → -/work/BashScr / master • |
```

5. Write a shell script that, given a file name as the argument will count vowels, blank spaces, characters, number of line and symbols.

```
if [[ $# -ne 1 ]]
then
    echo "Enter file as argument"
    exit
fi
```

```
if [[ !(-a $1) ]]
then
    echo "Enter valid file"
       exit
fi
SYM=0
BS=`grep -o ' ' $1 | wc -1`
CHA=`wc -c $1 | awk '{print $1}'`
V=0
L=`wc -l $1 | awk '{print $1}'`
while read -n1 c
do
    then
        ((SYM++))
    elif [[ $c == *[aAeEiIoOuU]* ]]
    then
        ((V++))
    fi
done < "$1"
echo "The number of lines are: $L"
echo "The number of vowels are: $V"
echo "The number of characters are: $CHA"
echo "The number of spaces are: $BS"
echo "The number of symbols are: $SYM"
```

Output:

```
protonegative@fedora //work/BashScr / master / cat f1

Hello World %$$## TEST 123

LINE 2 %@@@
protonegative@fedora //work/BashScr / master / bash bash_2_5.sh f1

The number of lines are: 2

The number of vowels are: 6

The number of spaces are: 39

The number of spaces are: 6

The number of symbols are: 9

protonegative@fedora //work/BashScr // master / master // master //
```

6. Write a shell script that will take an input file and remove identical lines.

===============end

Output:

```
protonegative@fedora -/work/BashScr | master • cat rem

test
will remove
same lines
test
like
same lines
test

protonegative@fedora -/work/BashScr | master • cat rem

test

will remove
same lines
like
protonegative@fedora -/work/BashScr | master • cat rem

test

will remove
same lines
like
protonegative@fedora -/work/BashScr | master • cat rem

test

will remove
same lines
like
protonegative@fedora -/work/BashScr | master • cat rem
```

7. Write a shell script that displays a list of all the files in the current directory to which the user has read, write and execute permissions.

```
ls -lAh $PWD | awk -F " " '{print $1 " " $9}' > b.temp
while read l
do
    PERM=`echo $1 | awk '{print $1}'`
    USRPERM=${PERM:7:3}
    if [[ $USRPERM == "rwx" ]]
    then
        echo "$1"
    fi
done < b.temp
rm b.temp</pre>
```

=================end

Output:

.....

8. Write a shell script that folds long lines into 40 columns. Thus any line that exceeds 40 characters must be broken after 40th; a \ is to be appended as the indication of folding and the processing is to be continued with the residue. The input is to be through a text file created by the user.

```
if [[ $# -ne 1 ]]
then
    echo "Enter file as argument"
        exit
fi
if [[ !(-a $1) ]]
then
    echo "Enter valid file"
        exit
fi
n=`wc -l $1 | cut -d " " -f 1`
i=1
while [ $i -le $n ]
do
    line=`sed -n "$i p" $1`
    cc=`echo $line | wc -c | cut -d " " -f 1`
    while [ $cc -ge 40 ]
    do
        ext=`echo $line | cut -c 41-`
        line=`echo $line | cut -c 1-40`
        echo "$line \\"
        line=$ext
        cc=`echo $ext | wc -c | cut -d " " -f 1`
    done
echo "$line"
i=`expr $i + 1`
done
```

=====================================end

Output:

9. Write a shell script to delete all lines containing a specific word in one or more file supplied as argument to it.

```
if [ $# -eq 0 ]
then
    echo "Enter atleast one file"
exit
fi

echo "Enter word to be searched"
read word

for file in $*
do
    sed "/$word/d" $file > b.temp
    mv b.temp $file
done
```

Output:

eof
