

Shell Scripting – Set 2

Qno 6 -9

Foss Lab

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

Algorithm

- 1 If \$# = 1 do 2 else do 6
- 2 If file exist then do 3 else do 6
- 3 Store the line by line ignoring repeated lines in a temporary variable
- 4 Remove the first file
- 5 Move conten of temporary file to the first file
- 6 exit

shell script

```
GNU nano 2.2.6 File: q11.sh
#to remove duplicate lines
if [ $# -eq 1 ]
then
    if [ -f $1 ]
    then
        echo file found
        echo "##content of the file is##"
        cat $1
        awk '!seen[$0]++' $1 > temp
        rm $1
        mv temp $1
        echo New modified file is
        cat $1
    else
        echo enter a valid file
    fi
else
    echo You should enter the file name
fi
```

output

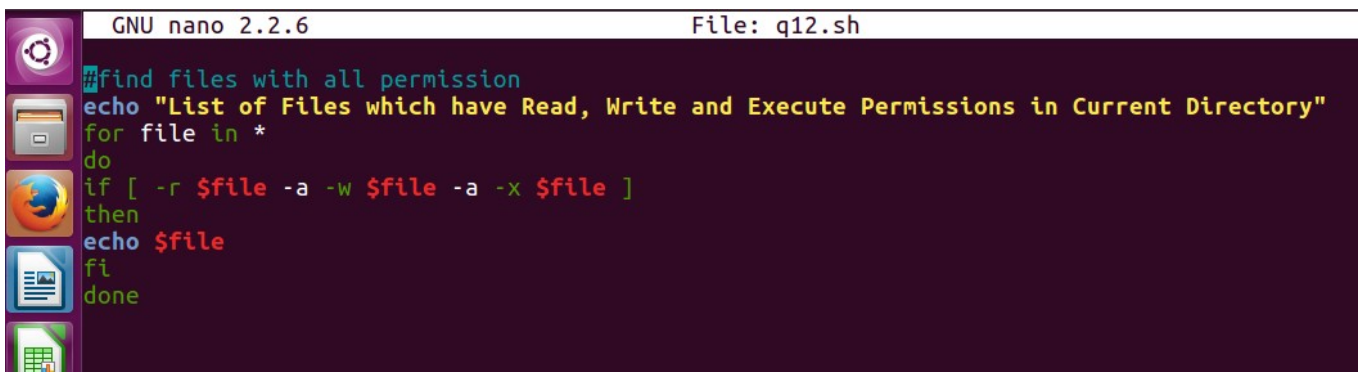
```
s1702@linux-server: ~/fossilab/Shell_script
s1702@linux-server:~/fossilab/Shell_script$ sh q11.sh hello
file found
##content of the file is##
hai
haai
hello
hello
how are you
haai
how are you
New modified file is
hai
haai
hello
how are you
s1702@linux-server:~/fossilab/Shell_script$
```

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.

Algorithm

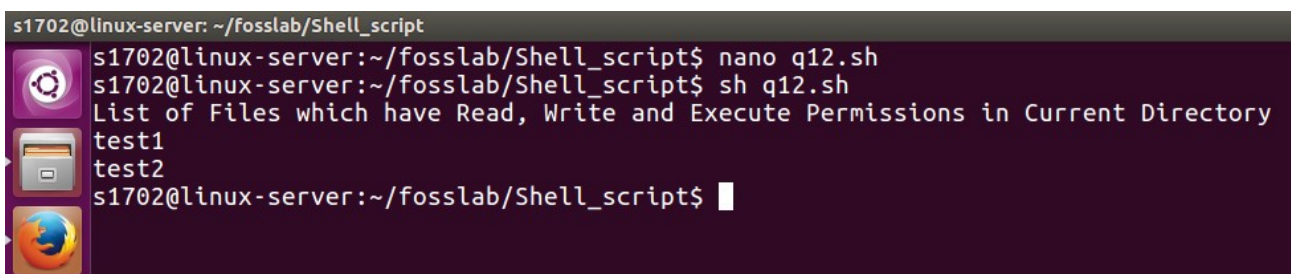
- 1 For loop for all the files in the current directory
- 2 if the file has read,write,execute permission do 3 else do 4
- 3 Print file name
- 4 Exit

Shell script



```
GNU nano 2.2.6 File: q12.sh
#find files with all permission
echo "List of Files which have Read, Write and Execute Permissions in Current Directory"
for file in *
do
if [ -r $file -a -w $file -a -x $file ]
then
echo $file
fi
done
```

output



```
s1702@linux-server: ~/fossilab/Shell_script
s1702@linux-server:~/fossilab/Shell_script$ nano q12.sh
s1702@linux-server:~/fossilab/Shell_script$ sh q12.sh
List of Files which have Read, Write and Execute Permissions in Current Directory
test1
test2
s1702@linux-server:~/fossilab/Shell_script$
```

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.

Algorithm

```
1 if $# is 1 do 2 else go to 13
2 if file exist do 3 else go to 13
3 store the number of lines in "n"
4 i =1
5 while i <= n do 6 to 12
6     store the i th line in "line"
7     store number of charecters in "cc"
6     while cc > 40 do 7 to 9
7         print first 40 charecter and a /
8         store the remaining charecter is "line"
9         store charecter count of new "line" in cc
10    end while
11    print line
12    i =i +1
13 exit
```

shell script

```
if [ $# -ne 1 ]
then
    echo Enter the file name as argument
    exit
fi
if [ -f $1 ]
then
    n=`wc -l $1 | cut -d " " -f 1`
    i=1
    while [ $i -le $n ]
    do
        line=`sed -n "$i p" $1`
        cc=`echo $line | wc -c | cut -d " " -f 1`
        #echo "$cc"
        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
else
    echo file doesnt exist
fi
```

output

```
s1702@linux-server:~/fossilab/Shell_script$ sh q13.sh garbage
hello haai haai hello hello haai haai he \
llo
ajwehguiwdyb4 w berwuierybwuy yhrwluierb \
ywg wriweycroywa yurgwv
rhgascyrc8yoauwbq
kfhgiagbcfyagqdfaewfsd
ffswadhfjsdh
s;dfhsohbiwh nhsdjh jirtwr gjndbguh gifh \
tgg d bgldfg hwrguherg heb
s1702@linux-server:~/fossilab/Shell_script$
```

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

Algorithm

- 1 If \$# not equal to zero do 2 else go to 5.
- 2 Read the word to be deleted in the file.
- 3 if the file exist do 4 else check the next file name till input ends.
- 4 delete the lines containing the word using sed command.
- 5 exit

shell script

```
if [ $# -eq 0 ]
then
    echo "Enter atleast one file name"
    exit
fi
echo "Enter the word to be searched in files"
read word
for file in $*
do
    if [ -f $file ]
    then
        sed "/$word/d" $file > tmp
        mv tmp $file
        echo "Deleted the lines containing $word in $file"
    else
        echo file $file doesnt exist
    fi
done
```

Output

```
s1702@linux-server:~/fossilab/Shell_script$ cat sample
how are you
hello how do you do
hello world
where are you
my name is hello

s1702@linux-server:~/fossilab/Shell_script$ sh q14.sh sample
Enter the word to be searched in files
hello
Deleted the lines containing hello in sample
s1702@linux-server:~/fossilab/Shell_script$ cat sample
how are you
where are you

s1702@linux-server:~/fossilab/Shell_script$ █
```

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