## Problem1: List the all those whose name is starting with a numeric number in a given path.

## Script:

```
#!/bin/sh
#location of the folder
location=$1
#finding the file whose name is starting with numeric number.
exec find $location -type f-name '[[:digit:]]*'
```

Step1: Save this file with .sh extension.

Step2: Run this command 'chmod u+x filename.sh'. We are running this command to assign execution permission to this file.

Step3: To run this file. Open you terminal and run a command ./filename.sh var1 var2

Here, in the above script we will be using var1 only to get the folder location from the user.

## Output:

```
root@linux:/home/anay/script# ./starting_with_numeric.sh
/home/anay/script/document/
/home/anay/script/document/7.txt
/home/anay/script/document/6.txt
/home/anay/script/document/10.c
/home/anay/script/document/9.txt
/home/anay/script/document/8.txt
```

## Problem2: Multiply each number in the file "input.txt" by 4 and print it.

## Script:

```sh
#!/bin/sh
#location of the file
location=$1
grep_int=$(exec grep-Eo '[0-9]{1,4}' $location)
echo $grep_int
data=$(echo $grep_int | tr " " "\n" )
m=4
for d in $data
do
        result= expr $d \* 4
        echo $result
done
```

## Output:

128

48

528

5296

## Problem3: Rename the files 1.txt, .....,10.txt to 1.c, .... , 10.c .

### Script:

```
#!/bin/sh
#file location
location=$1
# rename the files
echo "before renameing the flies are "
echo $(exec ls $location)
#rename s/old-name/new-name/ files
exec rename 's/\.txt/\.c/' $location[[:digit:]].txt
```

### Output:

```
root@linux:/home/anay/script# ls document/
10.c  6.txt  7.txt  8.txt  9.txt  Allfiles.txt  file.c  file2.c  output.txt  sample.txt
root@linux:/home/anay/script# ./rename_txt_c.sh /home/anay/script/document/
before renameing the flies are
10.c 6.txt 7.txt 8.txt 9.txt Allfiles.txt file.c file2.c output.txt sample.txt
root@linux:/home/anay/script# ls document/
10.c  6.c  7.c  8.c  9.c  Allfiles.txt  file.c  file2.c  output.txt  sample.txt
```

## Problem4: Rename the all files which has an extension '.txt' to '.c' .

## Script:

```
#!/bin/sh
#file location
location=$1
# rename the files
echo "before renameing the flies are "
echo $(exec ls $location)
#rename s/old-name/new-name/ files
exec rename 's/\.txt/\.c/' $location/*.txt
```

## Output:

```
root@linux:/home/anay/script# ls document/
10.c  6.c  7.c  8.c  9.c  Allfiles.txt  file.c  file2.c  output.txt  sample.txt
root@linux:/home/anay/script# ./rename_txt_c.sh /home/anay/script/document/
before renameing the flies are
10.c 6.c 7.c 8.c 9.c Allfiles.txt file.c file2.c output.txt sample.txt
root@linux:/home/anay/script# ls document/
10.c  6.c  7.c  8.c  9.c  Allfiles.c  file.c  file2.c  output.c  sample.c
root@linux:/home/anay/script#
```

## Problem5: Delete all the files given in whose name is given "AllFiles.txt".

```
#!/bin/sh
location=$1
echo "print the files name which is to be deleted"
files=$(exec cat $location/Allfiles.txt)
echo $files
#parsing the files name
filesname=$(echo $files | tr " " "\n" )
for d in $filesname
do
     rm $location/$d
done
```

## Output:

```
root@linux:/home/anay/script# ls document/
1.txt 10.c 2.txt 3.txt 4.txt 5.txt 6.c 7.c 8.c 9.c Allfiles.txt file.c file2.c output.c
sample.c
root@linux:/home/anay/script# ./delete_files.sh /home/anay/script/document
print the files name which is to be deleted
1.txt 2.txt 3.txt 4.txt 5.txt
root@linux:/home/anay/script# ls document/
10.c 6.c 7.c 8.c 9.c Allfiles.txt file.c file2.c output.c sample.c
```

## Problem6: Find the sum of all the 'ith' col. Value of the file 'i.txt'.

## Script:

```bash
#!/bin/bash

#file location
location=$1
#ith file
i=$2
#use filter command to get the col data
ithcol=$(exec cut-d' '-f$i $location/$i.txt)
echo $ithcol
# a variable
result=0
# parsing  col data
data=$(echo $ithcol | tr " " "\n" )
for d in $data
do
     result=$(($result + $d ))
done

echo $result
```

## Output:

```
root@linux:/home/anay/script# ./sum_ith_cl_ith_file.sh /home/anay/script/document/ 1
1 2 3 4 5 6 7 8 9 10
55
root@linux:/home/anay/script#
```

## Problem7: For all files in the directory, print pair of files that have same content.

## Script:

```bash
#!/bin/bash
location=$1
file=$(exec ls $location)
#echo $file
filename=$(echo $file | tr " " "\n")
#echo $filename
count=1
for f in $filename
do
    f_name[count]=$f
    count=$(($count+1))
done
#compare
1en=1
for (( i=1; i< ${#f_name[@]}; i++ ))
do
    for (( j=i+1; j<=${#f_name[@]}; j++ ))
    do
        result=$(comm $location/${f_name[i]} $location/${f_name[j]} | wc
-m )
        # echo $result
    if [ $result >= $l]
        then
            echo "yes the file which has some common contant are"${f
_name[i]}" and "${f_name[j]}
        fi
    done
done
```

## Output:

```
root@linux:/home/anay/script# ./common.sh /home/anay/script/common_files/
yes the file which has some common contant aresample.txt and sample1.txt
root@linux:/home/anay/script#
```

## Problem8: Take a word as argument and print filename and line number if it occurs.

## Script:

```sh
#!/bin/sh
location=$1
word=$2
echo "print the files"
files=$(exec ls $location)
echo $files
#parsing the files name
filesname=$(echo $files | tr " " "\n" )
echo $filename
str1=""
for d in $filesname
do
     output=$(exec grep-n $word $location/$d)
     echo "File "$location/$d" has this  word at line no "$output
done
```

## Output:

*root@linux:/home/anay/script# ./9.sh /home/anay/script/common_files/ Salman*

*print the files*

*sample.txt sample1.txt*

*File /home/anay/script/common_files//sample.txt has this  word at line no 3:Salman*

*File /home/anay/script/common_files//sample1.txt has this  word at line no 3:Salman*

## Problem9: Replace every word by removing first and last character of the word.

## Script:

```bash
#!/bin/bash
#file location
location=$1
#use filter command to get the col data
data=$(exec cat $location)
#print the content
echo $data
#cutting the line into data
word=$(echo $data | tr " " "\n" )
for d in $data
do
    echo $d | awk '{print substr($0, 2, length($0) - 2)}'
    #result=$(($result + $d ))
done
```

## Output:

```
root@linux:/home/anay/script# ./word_parsing.sh /home/anay/script/sample.txt
HHII AANAYY
HI
ANAY
```