WEEK 4

Write a Shell script to find the factorial of a given integer.

Program

```
# !/bin/bash
echo "enter a number"
read num
fact=1
while [ $num -ge 1 ]
do
fact=`expr  $fact\* $num`
num='expr $num – 1'
done
echo "factorial of $n is $fact"
```

Output

```
guest-glcbIs@ubuntu:~$sh
lprg7.sh
enter a number
4
factorial of 4 is 24
```

Write a Shell script to list all of the directory files in a directory.

Program

```
# !/bin/bash
echo "enter directory name"
read dir
if[ -d $dir]
then
echo "list of files in the directory"
ls –l $dir|egrep '^ d'
else
echo "enter proper directory name"
fi
```

Output

```
guest-glcbIs@ubuntu:~$sh lprg6.sh
enter directory name
dir1
list of files in the directory
drwxrwxr-x  4  guest-glcbls  guest-glcbls
140 2012-07-06 14:40 dir1
```

Write a Shell script that accepts a list of file names as its arguments, counts and reports the occurrence of each word that is present in the first argument file on other argument files.

Program

```
if [ $# -eq 0 ]
then
echo "no arguments"
else
tr " " "
" < $1 > temp
shift
for i in $*
do
tr " " "
" < $i > temp1
y=`wc -l < temp`
j=1
while [ $j -le $y ]
do
x=`head -n $j temp|tail -1`
c=`grep -c "$x" temp1`
echo $x $c
j=`expr $j 1`
done
done
fi
```

Output

```
guest-glcbIs@ubuntu:~$sh lprg6.sh
$sh 9a.sh hegde.sh ravi.sh
Raghu 2
Hary 1
Vinay 9
```

THANK YOU