USP Lab test 1 Write-up

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5A-2

Program 5

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USP Lab Test 1

Program 5 :-

a) Write a shell script to replace occurencies of "computer" with "retupmoc" in a given file using for loop

=>
```
#! /bin/sh
printf "Enter file path : "
read path
touch temp.txt
repl = "retupmoc"
for w in `cat $path`
do
    case $w in
        "computer") printf "$repl " ;;
        *) printf "$w " $
    esac
done >> temp.txt

cat temp.txt > $path
rm - rf temp.txt
```

```
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Harshit(1BM18CS036):~temp$ cat test.txt | grep computer
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Harshit(1BM18CS036):~temp$ sh q_5a.sh
Enter file path: test.txt
Harshit(1BM18CS036):~temp$ cat test.txt | grep computer
Harshit(1BM18CS036):~temp$ cat test.txt | grep retupmoc
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Harshit(1BM18CS036):~temp$
```

b) Write shell script to count number of files & directories in current directory.

->
```
#! /bin/sh

dirs = $( ls -lp | grep '[\/]$' | wc -l)
files = $(ls -lp| grep '-v '^[td]' | wc -l)

echo "Number of directories :" $dirs
echo "Number of files : "$files
```

explanation

ls -> this command list all files & folders one per line

grep -> output of ls is piped to grep, which filters files & folders

grep -v '^[td]' => -v means negate
^[td] -> lines starting with t & d are not files, hence ignore them

grep -v '[\/]$' => [\/]$ lines ending with a '/' character are folders.
\/ , \ is used to escape the '/' character.

```
Harshit(1BM18CS036):~temp$ ls -l
total 28
-rw-rw-r-- 1 wave wave  740 Nov 17 14:52 emp.lst
-rw-rw-r-- 1 wave wave  355 Nov 19 16:11 q_5a_change.sh
-rw-rw-r-- 1 wave wave  294 Nov 19 15:43 q_5a.sh
-rw-rw-r-- 1 wave wave  167 Nov 19 14:54 q_5b.sh
-rw-rw-r-- 1 wave wave    0 Nov 18 20:22 temp.sh
drwxrwxr-x 2 wave wave 4096 Nov 19 16:16 test
-rw-rw-r-- 1 wave wave    9 Nov 19 15:46 test1.txt
-rw-rw-r-- 1 wave wave  628 Nov 19 16:10 test.txt
Harshit(1BM18CS036):~temp$ sh q_5b.sh
Number of directories : 1
Number of files : 7
Harshit(1BM18CS036):~temp$ 
```