OS-ASSIGNMENT-04

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1) Write a shell script which takes filename as argument and checks whether file is regular file, directory, block special file, character special file, named pipe, symbolic link, socket, device file etc.

```
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$ ls
abcd.txt folder1 folder2 q1.sh q2.sh q3.sh q4.sh
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$ ./q1.sh
Please enter file name : folder1
'folder1' directory found
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$ ./q1.sh
Please enter file name : q1.sh
'q1.sh' file found
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$ ./q1.sh
Please enter file name : abcd.png
'abcd.png' does not exist
```

2) Write a shell script which will take file name as argument and check whether the file name is a dir or not and then proceed further only if it is a dir, else give usage message. The script should then print in the tabular format, name of each sub-dir (within the argument dir) and a count of the number of top level files in that sub-dir. Modify the program to work with multiple numbers of arguments, too.

3) Write a script that will search for a specific word in all the files in the current dictionary and then prompt with the file name in which word is found.

4) Write a script to print only the number of executable files in each sub-dir of the argument directory specified.

```
#question 4

dirargu="."

echo -e "Enter sub-dir to find executable files [enter for current] : \c"

read dirargu
find $dirargu -mindepth 2 -executable -type f
```

5) Write a non-interactive script that takes in any no. of directory name as argument and calculates total no. of blocks of disk space occupied by the ordinary files in all the directories.

```
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$ ./q5.sh folder
1 folder2
number of blocks occupied by folder1 : total 12
number of blocks occupied by folder2 : total 4
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$
```

6) Write a shell script file named exercise2.sh that makes a list of files in your home directory that were changed less than 24 hours ago, but leave out directories.

```
GNU nano 4.8 q6.sh
#question 6
find ~ -type f -mtime -1 -ls
```

```
GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-04$
```