

SHELL SCRIPTING ASSIGNMENT

1. Write a shell script that consists of a function that displays the number of files in the present working directory. Name this function "file_count" and call it in your script. If you use variable in your function, remember to make it a local variable.

```
rohan@rohan-virtual-machine: ~/shell
```

```
#!/bin/bash  
function file_count()  
{  
    local count=$(ls -l | wc -l)  
    echo "no. of files in directory is $count"  
}  
file_count
```

```
"No file.sh" 7 lines, 130 bytes
```

```
rohan@rohan-virtual-machine: ~/shell
```

```
rohan@rohan-virtual-machine:~/shell$ vi NO_file.sh
rohan@rohan-virtual-machine:~/shell$ vi No_file.sh
rohan@rohan-virtual-machine:~/shell$ bash No_file.sh
no. of files in directory is 17
rohan@rohan-virtual-machine:~/shell$
```

2. For each directory in the \$PATH, display the number of executable in that directory

```
rohan@rohan-virtual-machine: ~/shell
/bin/bash/sh
IFS=":"
for i in $PATH;
do
    echo "Directory: $i"
    echo "Executable files are: $(find "$i" -type f -executable | wc -l)"
done

'Exe.sh' 7 lines, 144 bytes
```

```
rohan@rohan-virtual-machine: ~/shell
rohan@rohan-virtual-machine:~/shell$ vi Exe.sh
rohan@rohan-virtual-machine:~/shell$ bash Exe.sh
Directory: /usr/local/sbin
Executable files are: 0
Directory: /usr/local/bin
Executable files are: 0
Directory: /usr/sbin
Executable files are: 290
Directory: /usr/bin
Executable files are: 1428
Directory: /sbin
Executable files are: 0
Directory: /bin
Executable files are: 0
Directory: /usr/games
Executable files are: 6
Directory: /usr/local/games
Executable files are: 0
Directory: /snap/bin
Executable files are: 0
Directory: /snap/bin
Executable files are: 0
rohan@rohan-virtual-machine:~/shell$
```

3. Display the names of any file-system which have less than 10% free space available


```
# /bin/bash/sh
```

```
for i in "$*"
do
echo "content in directories are $i"
ls -l "$i"
done
```

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

```
"content.sh" 7 lines, 87 bytes
```

```
ls: cannot access '/home/shell': No such file or directory
rohan@rohan-virtual-machine:~/shell$ bash content.sh /home
content in directories are /home
total 4
drwxr-x--- 16 rohan rohan 4096 Apr 17 16:21 rohan
rohan@rohan-virtual-machine:~/shell$ pwd
/home/rohan/shell
rohan@rohan-virtual-machine:~/shell$ bash content.sh /home/rohan/shell
content in directories are /home/rohan/shell
total 76
-rw-rw-r-- 1 rohan rohan 93 Apr 19 16:12 1
-rw-rw-r-- 1 rohan rohan 61 Apr 15 18:53 addition.sh
-rw-rw-r-- 1 rohan rohan 87 Apr 19 16:21 content.sh
-rw-rw-r-- 1 rohan rohan 77 Apr 15 19:27 div.sh
-rw-rw-r-- 1 rohan rohan 144 Apr 19 16:00 Exe.sh
-rw-rw-r-- 1 rohan rohan 80 Apr 15 19:40 for2.sh
-rw-rw-r-- 1 rohan rohan 69 Apr 15 19:38 for.sh
-rw-rw-r-- 1 rohan rohan 125 Apr 19 12:52 if_else.sh
-rw-rw-r-- 1 rohan rohan 85 Apr 17 14:33 if.sh
-rw-rw-r-- 1 rohan rohan 205 Apr 19 12:52 leap.sh
-rw-rw-r-- 1 rohan rohan 93 Apr 19 16:11 Less.sh
-rw-rw-r-- 1 rohan rohan 72 Apr 15 19:32 mod.sh
-rw-rw-r-- 1 rohan rohan 67 Apr 15 19:19 mul.sh
-rw-rw-r-- 1 rohan rohan 130 Apr 19 15:49 No_file.sh
-rw-rw-r-- 1 rohan rohan 0 Apr 19 15:48 NO_file.sh
-rw-rw-r-- 1 rohan rohan 206 Apr 19 12:46 prime.sh
-rw-rw-r-- 1 rohan rohan 87 Apr 15 19:11 sub.sh
-rw-rw-r-- 1 rohan rohan 151 Apr 19 12:57 voting.sh
-rw-rw-r-- 1 rohan rohan 90 Apr 15 23:44 while2.sh
-rw-rw-r-- 1 rohan rohan 95 Apr 15 23:39 while.sh
rohan@rohan-virtual-machine:~/shell$ vi content.sh
rohan@rohan-virtual-machine:~/shell$
```