3). Shell Scripting (File Organizer Shell Script)

1) Created the directory and moved the directory into it and created required files.

```
master@master-node:~$ mkdir mocktest
naster@master-node:~$ do mocktest/
naster@master-node:~/mocktest$ touch readme.txt notes.txt todo.txt
naster@master-node:~/mocktest$ touch install.sh setup.sh deploy.sh
naster@master-node:~/mocktest$ touch deploy.sh
naster@master-node:~/mocktest$ touch data.csv report.csv results.csv summary.pdf
naster@master-node:~/mocktest$ ls -1
access.log
deploy.sh
error.log
install.sh
notes.txt
readme.txt
report.csv
results.csv
setup.sh
summary.pdf
todo.txt
naster@master-node:~/mocktest$ |
```

2) I have Created a filename with "file_organizer.sh" to write the script.

```
master@master-node:~/mocktest$ nano file_organizer.sh
```

```
done
echo "Total number of files moved: $files_moved"
```

3) Give the Permissions to the file and run it.

```
master@master-node:~/mocktest$ nano file_organizer.sh
master@master-node:~/mocktest$ chmod a+x file_organizer.sh
master@master-node:~/mocktest$ ./file_organizer.sh
Enter the directory path: /home/master/mocktest
Enter the file extension to organize (e.g., txt, log, sh): log
Moved: access.log -> organized/log/
Moved: debug.log -> organized/log/
Moved: error.log -> organized/log/
Total number of files moved: 3
master@master-node:~/mocktest$
```

All the files created

```
master@master-node:~/mocktest$ ls I
data.csv file_organizer.sh notes.txt organized readme.txt report.csv results.csv summary.pdf todo.txt
master@master-node:~/mocktest$ cd organized/
master@master-node:~/mocktest/organized$ ls
log sh
```