



# 20INMCA332 - Open Source Platforms - Lab

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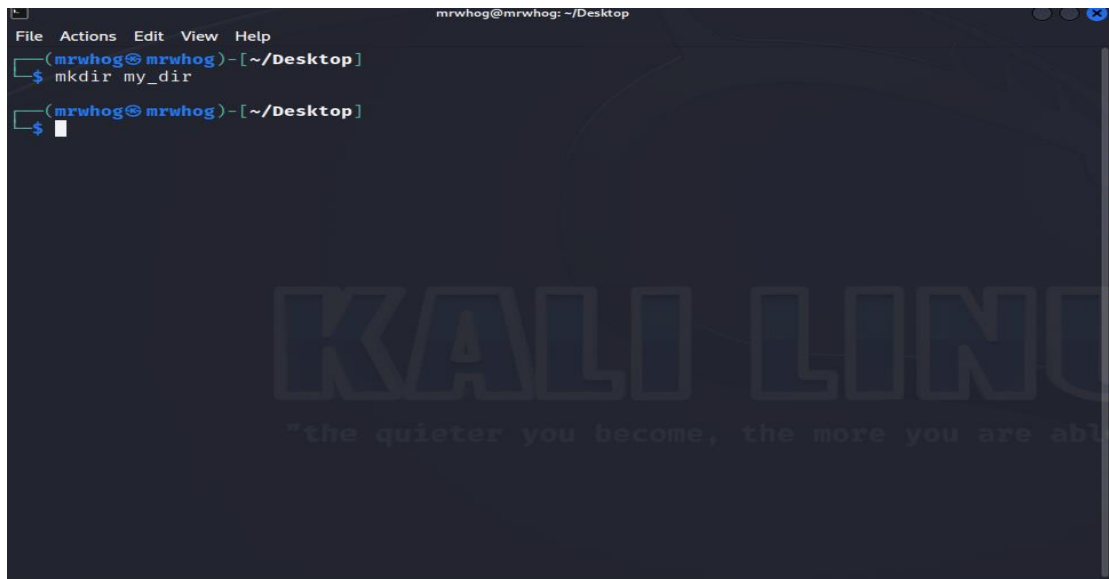
Roll No: 04

## Open Source Platforms – Lab

1. Execute commands for creating a directory, create 3 subdirectories inside it, create 3 files with content. List all details separately. Execute a shell script to find whether a given number is prime or not. Upload both programs with output to GitHub and share to corresponding staff.

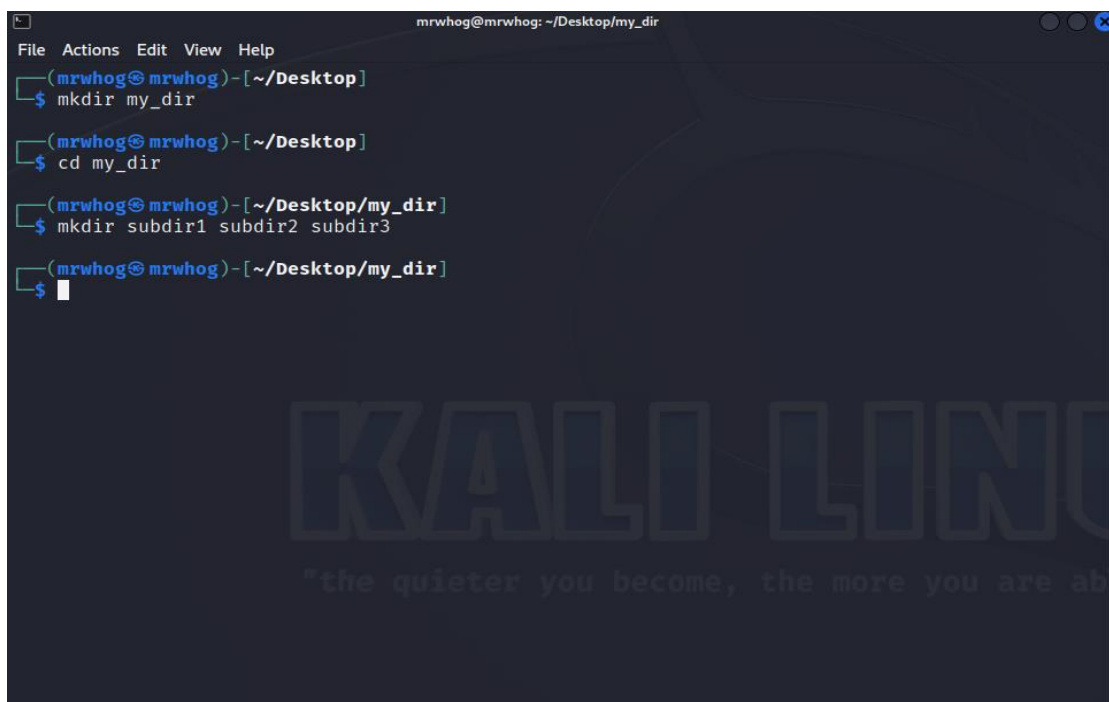
Ans:

### creating a directory

A terminal window titled 'mrwhog@mrwhog: ~/Desktop' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(mrwhog@mrwhog)-[~/Desktop]'. The command '\$ mkdir my\_dir' is entered and executed. The prompt changes to '(mrwhog@mrwhog)-[~/Desktop]' and a new line is shown with '\$' and a cursor.

```
mrwhog@mrwhog: ~/Desktop
(mrwhog@mrwhog)-[~/Desktop]
$ mkdir my_dir
(mrwhog@mrwhog)-[~/Desktop]
$
```

### creating 3 subdirectories inside it

A terminal window titled 'mrwhog@mrwhog: ~/Desktop/my\_dir' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(mrwhog@mrwhog)-[~/Desktop]'. The command '\$ mkdir my\_dir' is entered and executed. The prompt changes to '(mrwhog@mrwhog)-[~/Desktop]'. The command '\$ cd my\_dir' is entered and executed. The prompt changes to '(mrwhog@mrwhog)-[~/Desktop/my\_dir]'. The command '\$ mkdir subdir1 subdir2 subdir3' is entered and executed. The prompt changes to '(mrwhog@mrwhog)-[~/Desktop/my\_dir]' and a new line is shown with '\$' and a cursor.

```
mrwhog@mrwhog: ~/Desktop/my_dir
(mrwhog@mrwhog)-[~/Desktop]
$ mkdir my_dir
(mrwhog@mrwhog)-[~/Desktop]
$ cd my_dir
(mrwhog@mrwhog)-[~/Desktop/my_dir]
$ mkdir subdir1 subdir2 subdir3
(mrwhog@mrwhog)-[~/Desktop/my_dir]
$
```

## creating 3 files with content

```
mrwhog@mrwhog: ~/Desktop/my_dir/subdir3
File Actions Edit View Help

(mrwhog@mrwhog)-[~/Desktop]
$ mkdir my_dir

(mrwhog@mrwhog)-[~/Desktop]
$ cd my_dir

(mrwhog@mrwhog)-[~/Desktop/my_dir]
$ mkdir subdir1 subdir2 subdir3

(mrwhog@mrwhog)-[~/Desktop/my_dir]
$ cd subdir1

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir1]
$ echo "This is File1 text">File1.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir1]
$ cd ../subdir2

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir2]
$ echo "This is File2 text">File2.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir2]
$ cd ../subdir3

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir3]
$ echo "This is File3 text">File3.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir3]
$
```

```
mrwhog@mrwhog: ~/Desktop/my_dir/subdir1
File Actions Edit View Help

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir2]
$ echo "This is File2 text">File2.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir2]
$ cd ../subdir3

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir3]
$ echo "This is File3 text">File3.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir3]
$ ls
File3.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir3]
$ cd ../subdir2

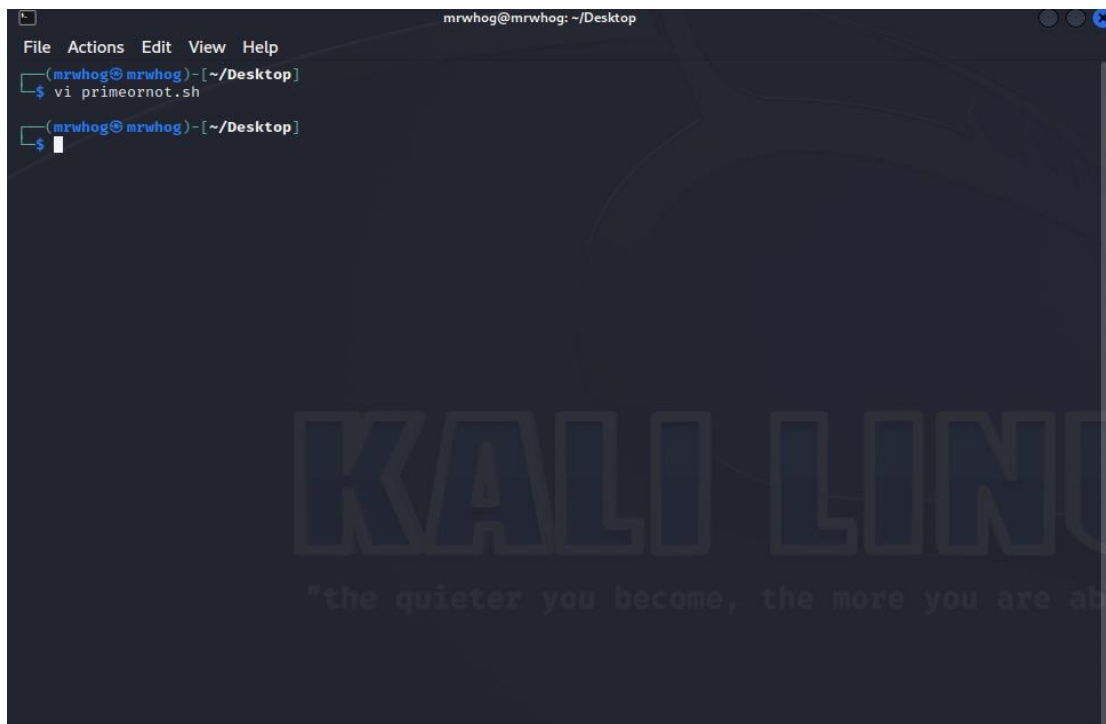
(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir2]
$ ls
File2.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir2]
$ cd ../subdir1

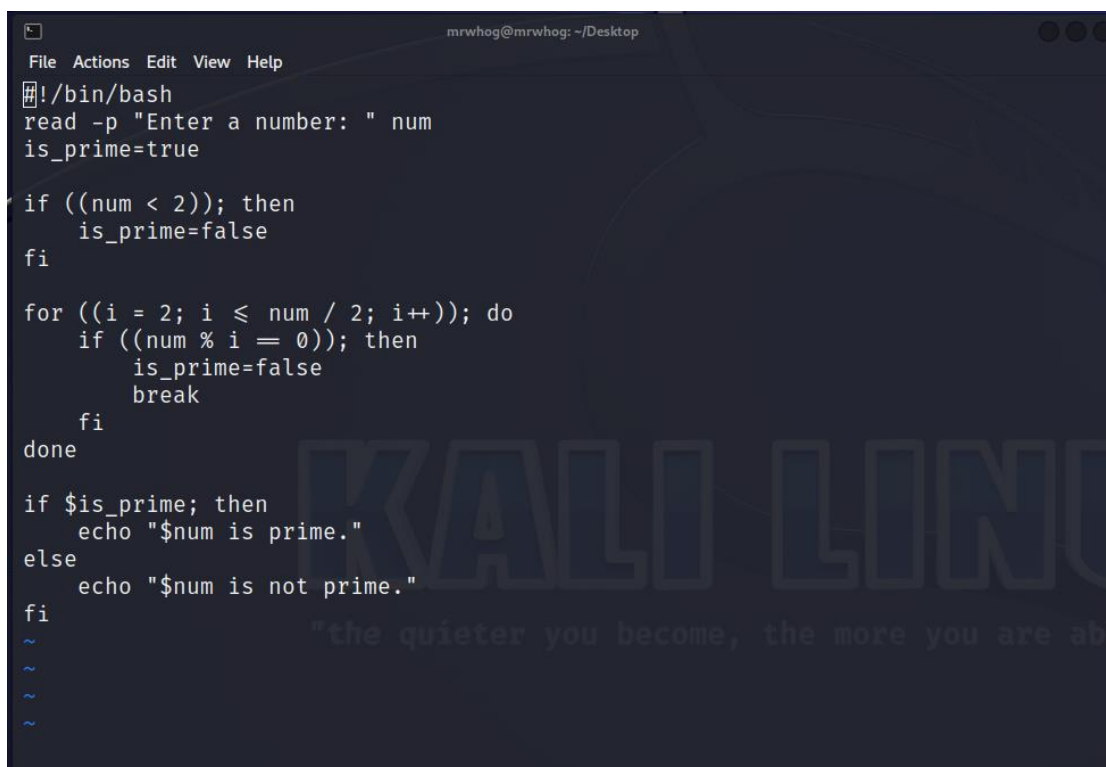
(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir1]
$ ls
File1.txt

(mrwhog@mrwhog)-[~/Desktop/my_dir/subdir1]
$
```

- Shell script to find whether a given number is prime or not



```
mrwhog@mrwhog: ~/Desktop
File Actions Edit View Help
(mrwhog@mrwhog)~[~/Desktop]
$ vi primeornot.sh
(mrwhog@mrwhog)~[~/Desktop]
$
```



```
mrwhog@mrwhog: ~/Desktop
File Actions Edit View Help
#!/bin/bash
read -p "Enter a number: " num
is_prime=true

if ((num < 2)); then
    is_prime=false
fi

for ((i = 2; i ≤ num / 2; i++)); do
    if ((num % i == 0)); then
        is_prime=false
        break
    fi
done

if $is_prime; then
    echo "$num is prime."
else
    echo "$num is not prime."
fi
~
~
~
~
```

```
mrwhog@mrwhog: ~/Desktop
File Actions Edit View Help

(mrwhog@mrwhog)-[~/Desktop]
$ vi primeornot.sh

(mrwhog@mrwhog)-[~/Desktop]
$ bash primeornot.sh
Enter a number: 4
4 is not prime.

(mrwhog@mrwhog)-[~/Desktop]
$ bash primeornot.sh
Enter a number: 5
5 is prime.

(mrwhog@mrwhog)-[~/Desktop]
$
```

- Upload both programs with output to GitHub and share to corresponding staff.

```
MINGW64:/e/Lab Exam
albin@mrwhog MINGW64 /e/Lab Exam
$ git init
Initialized empty Git repository in E:/Lab Exam/.git/

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git add .
warning: in the working copy of 'primeornot.sh', LF will be replaced by CRLF the
next time Git touches it

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git config --global user.name "akr033"

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git config --global user.email "albinkroby72@gmail.com"

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git commit -m "first commit"
[master (root-commit) efc5e12] first commit
11 files changed, 20 insertions(+)
create mode 100644 Create a directory.png
create mode 100644 Create three subdirectories inside the main directory.png
create mode 100644 create 3 subdirectories inside it, create 3files with conten
t.png
create mode 100644 create 3 subdirectories inside it.png
create mode 100644 displaying content.png
create mode 100644 prime or not SH-1.png
create mode 100644 prime or not SH-2.png
create mode 100644 prime or not SH-3.png
create mode 100644 prime or not SH-4.png
create mode 100644 prime or not SH-5.png
create mode 100644 primeornot.sh

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git branch -M master
```

```
albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git branch -M master

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git remote add origin https://github.com/akr033/osp.git

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ git push -u origin master
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 16 threads
Compressing objects: 100% (13/13), done.
Writing objects: 100% (13/13), 10.54 MiB | 6.06 MiB/s, done.
Total 13 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/akr033/osp.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

albin@mrwhog MINGW64 /e/Lab Exam (master)
$ |
```

[Github Link](https://github.com/akr033/osp.git)