

# Ethical Hacking

1) Execute and display the results for the following commands in Kali Linux Operating Systems:

rm command  
users command  
tree command

## Solution:

**rm command**-Used to remove (delete) files or directories in Linux.

```
(bobby@ bobby)-[~]
$ ls
arms.sse.saveetha.com  Desktop  EH  metasploitable3-workspace  ns-3-dev  packet_sender.py  pimpmymkali  Templates
cmake-3.27.0          Downloads example.txt  Music  package.json  phoneinfoga  Public  Videos
cmake-3.27.0.tar.gz   Downloads Install-DVWA.sh  node_modules  package-lock.json  Pictures  rootfs  yogeshwar.me

(bobby@ bobby)-[~]
$ rm -r example.txt

(bobby@ bobby)-[~]
$ ls
arms.sse.saveetha.com  Desktop  EH  metasploitable3-workspace  ns-3-dev  packet_sender.py  pimpmymkali  Templates
cmake-3.27.0          Downloads Install-DVWA.sh  node_modules  package-lock.json  Pictures  rootfs  yogeshwar.me
```

**users command**-Displays the names of users currently logged into the system.

```
(bobby@ bobby)-[~]
$ users
bobby
```

**tree command**-Displays directory structure in a tree-like format.

```
(bobby@ bobby)-[~]
$ cd Ethical_hacking

(bobby@ bobby)-[~/Ethical_hacking]
$ ls
LAB  Unit-1  Unit-2  Unit-3  Unit-4  Unit-5

(bobby@ bobby)-[~/Ethical_hacking]
$ ~

(bobby@ bobby)-[~]
$ tree Ethical_hacking
Ethical_hacking
├── LAB
│   ├── Basic commands
│   ├── Lab Manual
│   └── Nmap Commands
├── Unit-1
├── Unit-2
├── Unit-3
├── Unit-4
└── Unit-5

2 directories, 8 files

(bobby@ bobby)-[~]
$ █
```

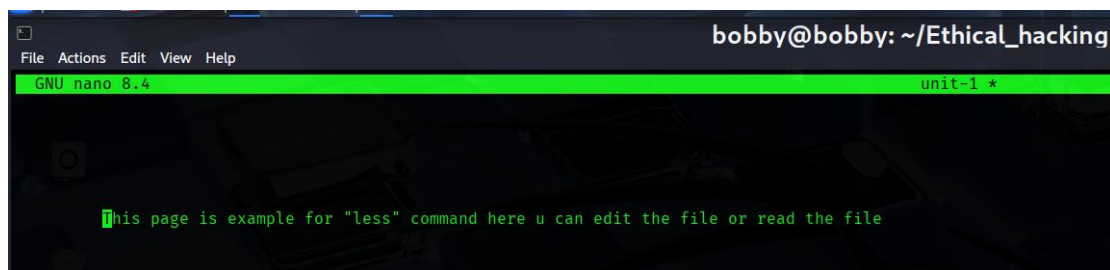
2)Execute and display the results for the following commands in Kali Linux Operating Systems:

less command  
more command  
vi command

### Solution:

**less command**-Used to view the contents of a file one screen at a time.

```
(bobby@bobby)-[~/Ethical_hacking]
$ less unit-1
```



**more command**-Used to display file contents page by page (forward only).

```
(bobby@bobby)-[~]
$ cd yogeshwar.me

(bobby@bobby)-[~/yogeshwar.me]
$ more index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Concept Map Library | Saveetha Calculator</title>
  <link rel="stylesheet" href="style.css">
```

**vi command**-Used to create, edit, and view files using the VI text editor.

```
(bobby@bobby)-[~/yogeshwar.me]
$ vi index.html

E925: ATTENTION
Found a swap file by the name ".index.html.swp"
  owned by: bobby   dated: Sat Dec 20 21:27:21 2025
  file name: ~bobby/yogeshwar.me/index.html
  modified: YES
  user name: bobby   host name: bobby
  process ID: 16471
While opening file "index.html"
  dated: Fri Oct 24 13:14:24 2025

(1) Another program may be editing the same file. If this is the case,
    be careful not to end up with two different instances of the same
    file when making changes. Quit, or continue with caution.
(2) An edit session for this file crashed.
    If this is the case, use ":recover" or "vim -r index.html"
    to recover the changes (see ":help recovery").
    If you did this already, delete the swap file ".index.html.swp"
    to avoid this message.

Swap file ".index.html.swp" already exists!
[O]pen Read-Only, [E]dit anyway, [R]ecover, [D]elete it, [Q]uit, [A]bort: █
```

3)Execute and display the results for the following commands in Kali Linux Operating Systems:

Tree  
Head  
Tail

### Solution:

**Head**-Used to display the first 10 lines of a file by default.

```
(bobby@bobby)-[~/yogeshwar.me]
$ head index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Concept Map Library | Saveetha Calculator</title>
  <link rel="stylesheet" href="style.css">
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700&display=swap" rel="stylesheet">
  <!-- EmailJS SDK -->
  <script type="text/javascript" src="https://cdn.jsdelivr.net/npm/emailjs/browser@4/dist/email.min.js"></script>
```

**Tail**-Used to display the last 10 lines of a file by default.

```
(bobby@bobby)-[~/yogeshwar.me]
$ tail index.html
    if (targetSection) {
      targetSection.scrollIntoView({ behavior: 'smooth' });
    }
  });
</script>
</body>

</html>
```

4)Execute and display the results for the following commands in Kali Linux Operating Systems:

- i) Ls
- ii) Cat
- iii) Mkdir

### Solution:

i) **Ls**-Used to **list files and directories** in the current directory.

```
(bobby@bobby)-[~/yogeshwar.me]
$ ls
assignments.js  faculty.js  index.html  maps.js  style.css
```

ii) **Cat**-Used to **display the contents of a file** on the terminal.

```
(bobby@bobby)-[~/yogeshwar.me]
$ cat index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Concept Map Library | Saveetha Calculator</title>
```

iii) Mkdir-Used to **create a new directory**.

```
(bobby@bobby)-[~]
$ mkdir hello

(bobby@bobby)-[~]
$ ls
arms.sse.saveetha.com  cmake-3.27.0.tar.gz  Documents  EH  hello  metasploitable3-workspace
cmake-3.27.0          Desktop              Downloads  Ethical_hacking  Install-DVWA.sh  Music
(bobby@bobby)-[~]
```

5)Execute and display the results for the following commands in Kali Linux Operating Systems:

- i) Uptime
- ii) Date
- iii) Mv

### Solution:

**Uptime**-Displays how long the system has been running, number of users, and system load.

```
(bobby@bobby)-[~]
$ uptime
21:41:35 up 45 min,  1 user,  load average: 0.09, 0.22, 0.19
```

**Date**-Displays the current system date and time.

```
(bobby@bobby)-[~]
$ date
Sat Dec 20 09:41:52 PM +0530 2025
```

iii) **Mv**-Used to move or rename files and directories.

```
(bobby@bobby)-[~]
$ cd yogeshwar.me

(bobby@bobby)-[~/yogeshwar.me]
$ mv index.html hi.html

(bobby@bobby)-[~/yogeshwar.me]
$ ls
assignments.js  faculty.js  hi.html  maps.js  style.css
```

6)Execute and display the results for the following commands in Kali Linux Operating Systems:

- i) Touch
- ii) Pwd
- iii) Wget

### Solution:

i) **Touch**-Used to create an empty file or update the timestamp of a file.

```
(bobby@bobby)-[~/yogeshwar.me]
$ touch newfile.py

(bobby@bobby)-[~/yogeshwar.me]
$ ls
assignments.js faculty.js hi.html maps.js newfile.py style.css
```

ii) **Pwd**-Displays the **present working directory** (current directory path).

```
(bobby@bobby)-[~/yogeshwar.me]
$ pwd
/home/bobby/yogeshwar.me
```

iii) **Wget**-Used to **download files from the internet** using a URL.

```
(bobby@bobby)-[~/yogeshwar.me]
$ wget yogeshwar.me
Prepended http:// to 'yogeshwar.me'
URL transformed to HTTPS due to an HSTS policy
--2025-12-20 22:02:45-- https://yogeshwar.me/
Resolving yogeshwar.me (yogeshwar.me)... 185.199.111.153, 185.199.112.15, 185.199.110.153, ...
Connecting to yogeshwar.me (yogeshwar.me)|185.199.111.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 23833 (23K) [text/html]
Saving to: 'index.html'

index.html                               100%[=====]
2025-12-20 22:02:48 (518 KB/s) - 'index.html' saved [23833/23833]
```

7)Execute and display the results for the following commands in Kali Linux Operating Systems:

- Cd
- Cp
- Ls

### Solution:

**Cd**:Used to change the current working directory.

```
(bobby@bobby)-[~/yogeshwar.me]
$ =

(bobby@bobby)-[~]
$ cd Ethical_hacking

(bobby@bobby)-[~/Ethical_hacking]
$ █
```

**Cp**-Used to **copy files or directories** from one location to another.

```
(bobby@bobby)~[~/yogeshwar.me]
$ ls
assignments.js  faculty.js  hi.html  index.html  maps.js  newfile.py  style.css

(bobby@bobby)~[~/yogeshwar.me]
$ cp index.html hi.html
```

**Ls**-Lists **files and directories** in the current directory.

```
(bobby@bobby)~[~/yogeshwar.me]
$ ls
assignments.js  faculty.js  hi.html  index.html  maps.js  newfile.py  style.css
```

