

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

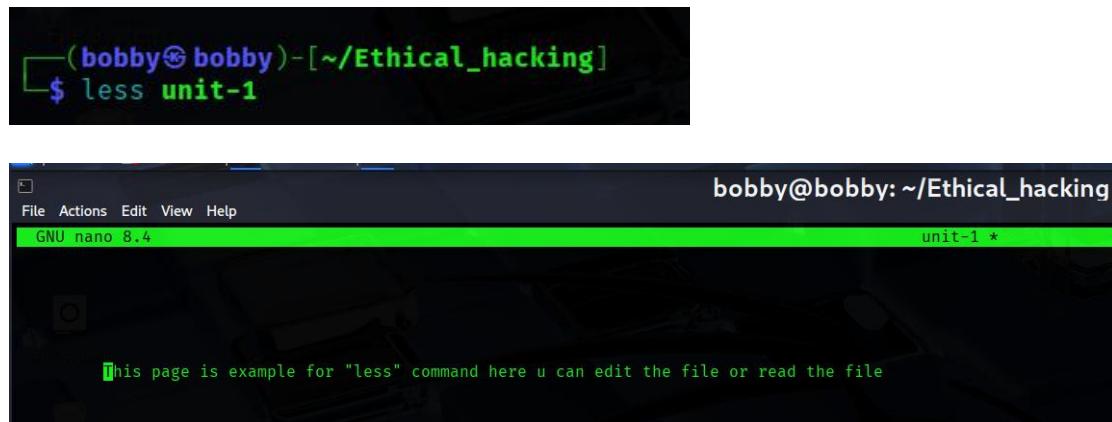
```
(bobby㉿bobby)-[~]
$ cd Ethical_hacking
(bobby㉿bobby)-[~/Ethical_hacking]
$ ls
LAB Unit-1 Unit-2 Unit-3 Unit-4 Unit-5
(bobby㉿bobby)-[~/Ethical_hacking]
$ ~
(bobby㉿bobby)-[~]
$ tree Ethical_hacking
Ethical_hacking
└── LAB
    ├── Basic_commands
    ├── Lab_Manual
    └── Nmap_Commands
    ├── Unit-1
    ├── 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.



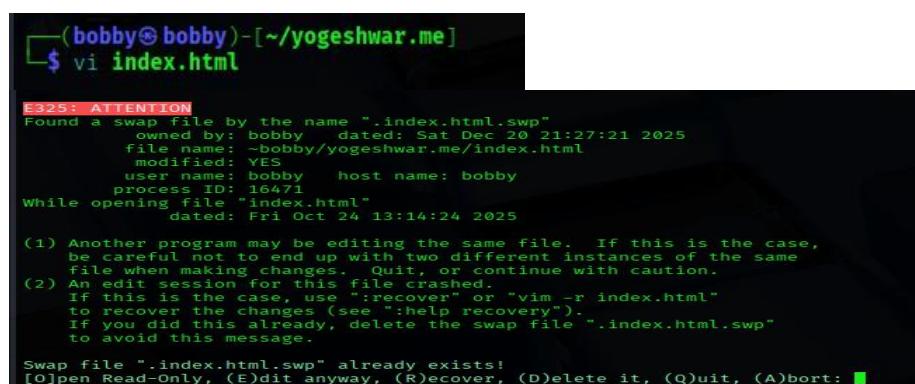
The terminal window shows the command \$ less unit-1. The output is a single line of text: "This page is example for "less" command here u can edit the file or read the file".

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



The terminal window shows the command \$ more index.html. The output is the content of the index.html file, which includes DOCTYPE, html, head, meta charset="UTF-8", viewport, title, and link tags.

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



The terminal window shows the command \$ vi index.html. It displays a warning about a swap file (.index.html.swp) and asks for user input to proceed.

```
E325: 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. (Q)uit, 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  
(bobby㉿bobby)~/yogeshwar.me$
```

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
Prepending 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%[=====] 23833/23833
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
```

