

The main idea of this lab exercise to give hands on experience on
grep
constructs
command line arguments

1. write a shell script to get value the pattern and file name from the user and check the pattern exists or not. If the pattern exists print the relevant message, if pattern not found print relevant message.

```
(kali@kali)-[/home/kali/nithesh]
PS> chmod +x script_1.sh

(kali@kali)-[/home/kali/nithesh]
PS> ./script_1.sh
Enter the pattern to search for: python
Enter the filename to search in: script_1.sh
Pattern 'python' not found in script_1.sh

(kali@kali)-[/home/kali/nithesh]
PS>
```

2. Modify the above script to pass the arguments from command line arguments.

```
(kali@kali)-[/home/kali/nithesh]
PS> vi script_2.sh

(kali@kali)-[/home/kali/nithesh]
PS> chmod +x script_2.sh

(kali@kali)-[/home/kali/nithesh]
PS> ./script_2.sh
Usage: /home/kali/nithesh/script_2.sh pattern filename
```

3. Modify the above script to pass the values inside the script.

```
(kali@kali)-[/home/kali/nithesh]
PS> vi script_3.sh

(kali@kali)-[/home/kali/nithesh]
PS> chmod +x script_3.sh

(kali@kali)-[/home/kali/nithesh]
PS> ./script_3.sh
Pattern 'example' not found in file example.txt.
```

4. validate the script (script 1, script 2)
 - the file exists or not
 - arguments passed or not

```
(kali@kali)-[~/nithesh]
$ vi script_4.sh

(kali@kali)-[~/nithesh]
$ chmod +x script_4.sh

(kali@kali)-[~/nithesh]
$ ./script_4.sh
Usage: ./script_4.sh <pattern> <filename>
```

5. Apply grep commands

Note: Make sure to use the options -e -c -n -q -s -f -A -B -C -i -h, -l -o -w

Frame the questions (as per your choice)
to extract user information
to extract network information
to extract login details

- grep -e: Search for exact pattern
- grep -c: Count the number of matches
- grep -n: Show line numbers
- grep -q: Quiet mode, only return exit status
- grep -s : Suppress error messages
- grep -f : Read patterns from a file

- `grep -A` : Show 3 lines after match
- `grep -B` : Show 3 lines before match
- `grep -C` : Show 3 lines before and after match
- `grep -i`: Case-insensitive search
- `grep -h`: Suppress file name
- `grep -l`: Only show file name
- `grep -o`: Only show matched text
- `grep -w`: Match whole words only