


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: ~/Desktop/Shreyas
File Actions Edit View Help
echo "Enter the pattern"
read pattern
echo "Enter the filename:"
read filename

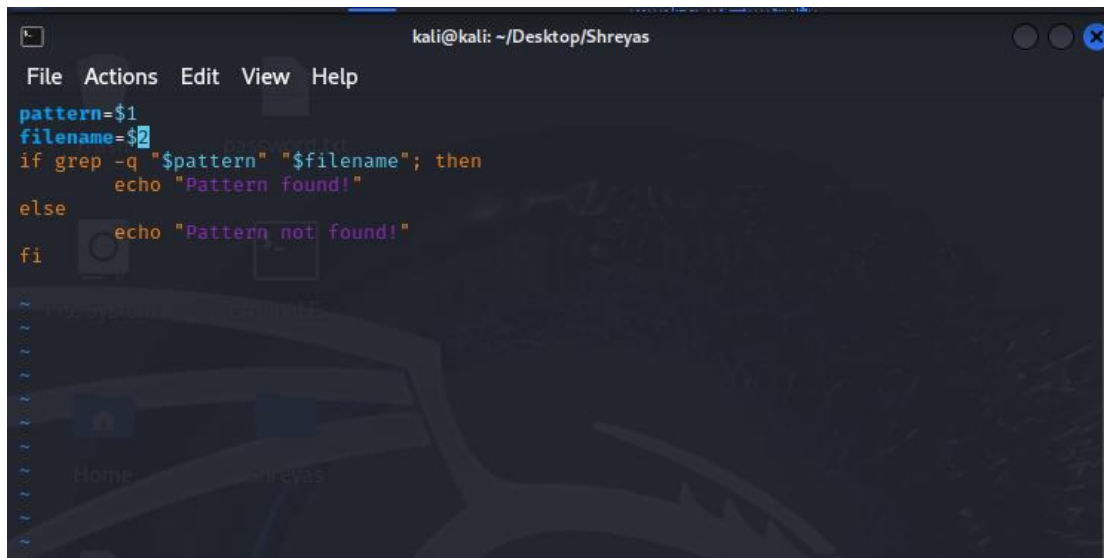
if grep -q "$pattern" "$filename"; then
    echo "Pattern found!"
else
    echo "Pattern not found!"
fi

```

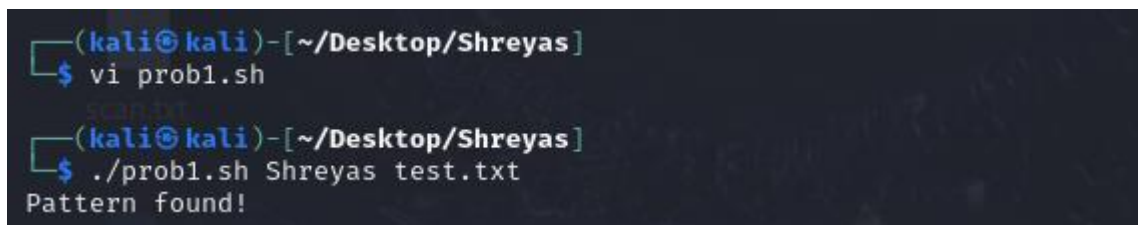


```
kali@kali: ~/Desktop/Shreyas
File Actions Edit View Help
(kali@kali)-[~/Desktop/Shreyas]
$ vi probl.sh
(kali@kali)-[~/Desktop/Shreyas]
$ vi probl.sh
(kali@kali)-[~/Desktop/Shreyas]
$ chmod +x probl.sh
(kali@kali)-[~/Desktop/Shreyas]
$ ./probl.sh
Enter the pattern
^C
(kali@kali)-[~/Desktop/Shreyas]
$ gedit test.txt
(gedit:10786): tepl-WARNING **: 08:56:58.334: Style scheme 'Kali-Dark' cannot be found, falling back to 'Kali-Dark' default style scheme.
(gedit:10786): tepl-WARNING **: 08:56:58.334: Default style scheme 'Kali-Dark' cannot be found, check your installation.
(gedit:10786): Gtk-WARNING **: 08:57:00.796: Calling org.xfce.Session.Manager.Inhibit failed: GDBus.Error:org.freedesktop.DBus.Error.UnknownMethod: No such method "Inhibit"
(kali@kali)-[~/Desktop/Shreyas]
$ ./probl.sh
Enter the pattern
Shreyas
Enter the filename:
test.txt
Pattern found!
(kali@kali)-[~/Desktop/Shreyas]
$
```

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



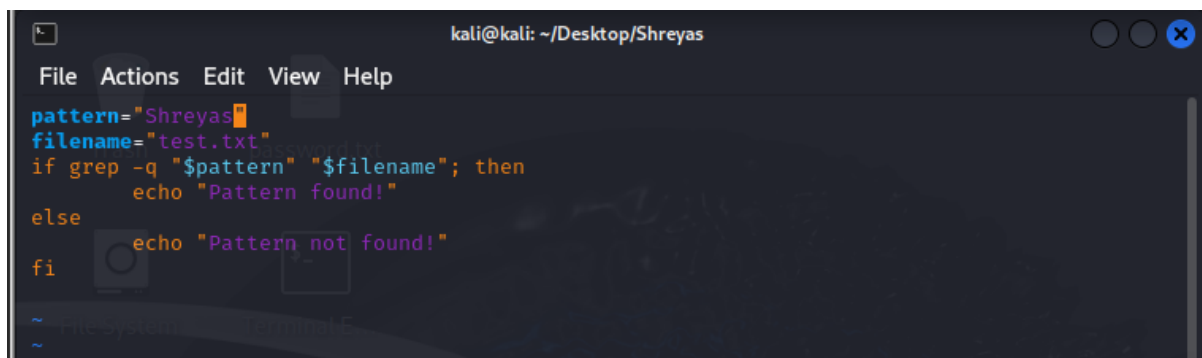
```
kali@kali: ~/Desktop/Shreyas
File Actions Edit View Help
pattern=$1
filename=$2
if grep -q "$pattern" "$filename"; then
    echo "Pattern found!"
else
    echo "Pattern not found!"
fi
```



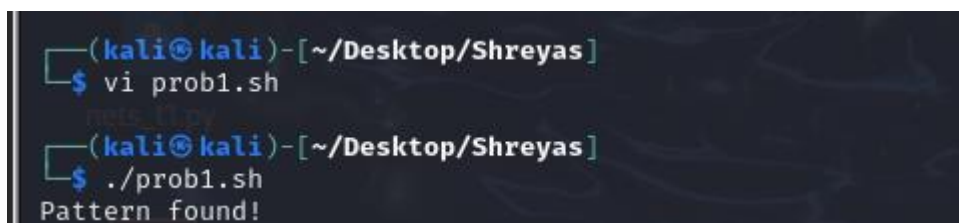
```
(kali@kali)-[~/Desktop/Shreyas]
$ vi prob1.sh

(kali@kali)-[~/Desktop/Shreyas]
$ ./prob1.sh Shreyas test.txt
Pattern found!
```

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



```
kali@kali: ~/Desktop/Shreyas
File Actions Edit View Help
pattern="Shreyas"
filename="test.txt"
if grep -q "$pattern" "$filename"; then
    echo "Pattern found!"
else
    echo "Pattern not found!"
fi
```



```
(kali@kali)-[~/Desktop/Shreyas]
$ vi prob1.sh

(kali@kali)-[~/Desktop/Shreyas]
$ ./prob1.sh
Pattern found!
```

4. validate the script (script 1, script 2)

- the file exists or not

```
kali@kali: ~/Desktop/Shreyas
File Actions Edit View Help
pattern=$1
filename=$2
password.txt
if test ! -f "$filename" ; then
    echo "file does not exists"
    exit 1
fi
if grep -q "$pattern" "$filename"; then
    echo "File found"
else
    echo "File not found"
fi
~
~
~
```

```
(kali@kali)-[~/Desktop/Shreyas]
$ vi prob2.sh

(kali@kali)-[~/Desktop/Shreyas]
$ ./prob2.sh Shreyas test.txt
File found
```

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

```
(kali@kali)-[~/Desktop/Shreyas]
$ cat /etc/passwd | grep 100[0-9] | cut -f1 -d:
kali
elitw
momos
shreyas
```

to extract network information

```
(kali@kali)-[~/Desktop/Shreyas]
$ cat /etc/resolv.conf | sed -n '3p'
nameserver 192.168.71.2
```

to extract login details

```
(kali@kali)-[~/Desktop/Shreyas]
$ cat /etc/passwd | grep 100[0-9] | cut -f1 -d:
kali
elitw
momos
shreyas

(kali@kali)-[~/Desktop/Shreyas]
$
```