Linux Administration

Assignment - Day 8

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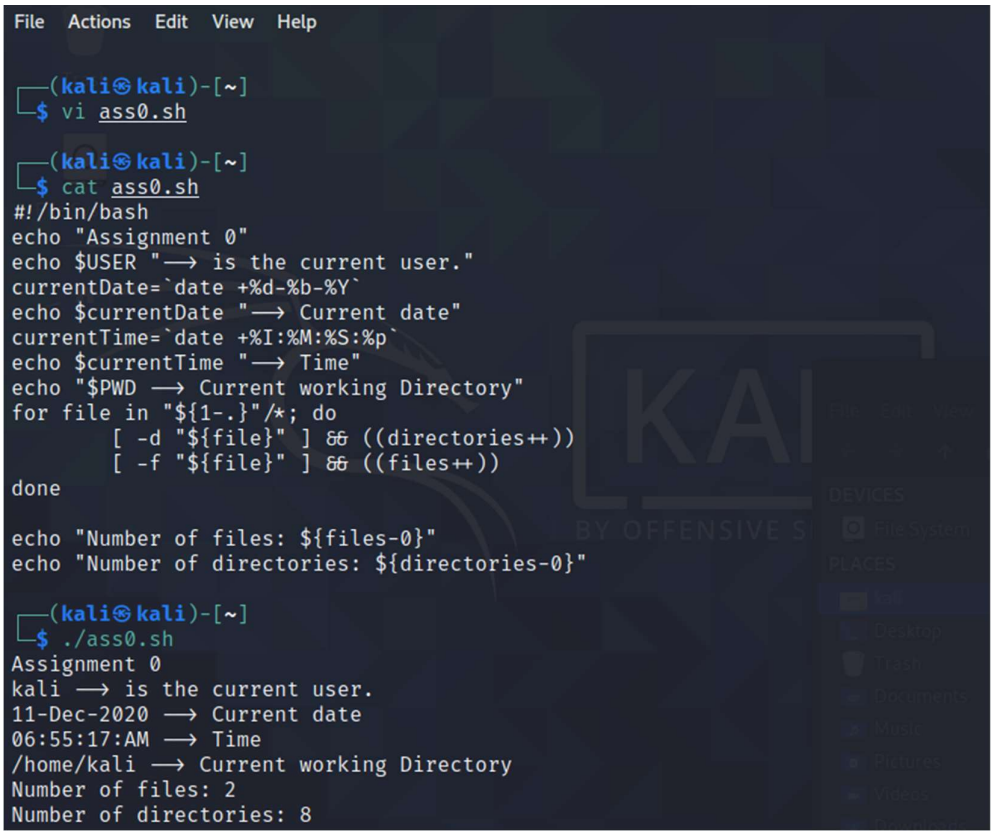
Assignment 0

1. Create a simple shell script to tell the user about their session – they need to know:

- **What their username is**
- **What the current date is**
- **What the time is**
- **What their current working directory is**
- **How many files they have in that directory**
- **What is the biggest file in their current directory**



```
#!/bin/bash
echo "Assignment 0"
echo $USER "⟶ is the current user."
currentDate=`date +%d-%b-%Y`
echo $currentDate "⟶ Current date"
currentTime=`date +%I:%M:%S:%p`
echo $currentTime "⟶ Time"
echo "$PWD ⟶ Current working Directory"
for file in "${1-.}"/*; do
        [ -d "${file}" ] && ((directories++))
        [ -f "${file}" ] && ((files++))
done

echo "Number of files: ${files-0}"
echo "Number of directories: ${directories-0}"
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
:wq
```

Assignment 1

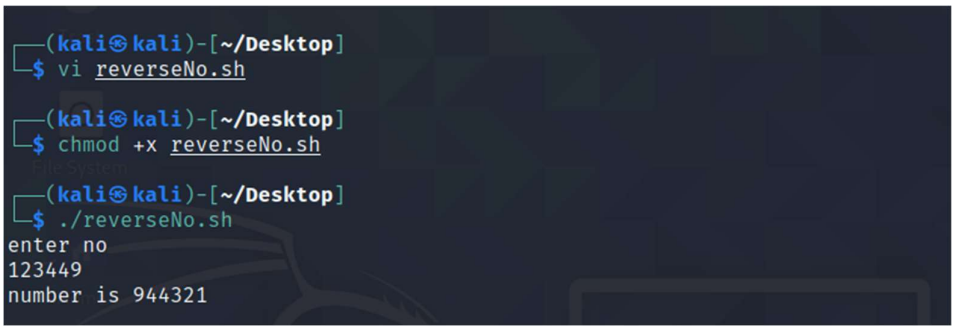
Create a directory with a few test files in it (the files can be empty).

Now write a script that for every file in that directory you rename it to have an extension of today's date in YYYYMMDD format.

```
┌──(kali㉿kali)-[~]
└─$ cd Desktop

┌──(kali㉿kali)-[~/Desktop]
└─$ mkdir ass1

┌──(kali㉿kali)-[~/Desktop]
└─$ cd ass1

┌──(kali㉿kali)-[~/Desktop/ass1]
└─$ touch {1..5}

┌──(kali㉿kali)-[~/Desktop/ass1]
└─$ ls
1  2  3  4  5

┌──(kali㉿kali)-[~/Desktop/ass1]
└─$
```

Assignment 2

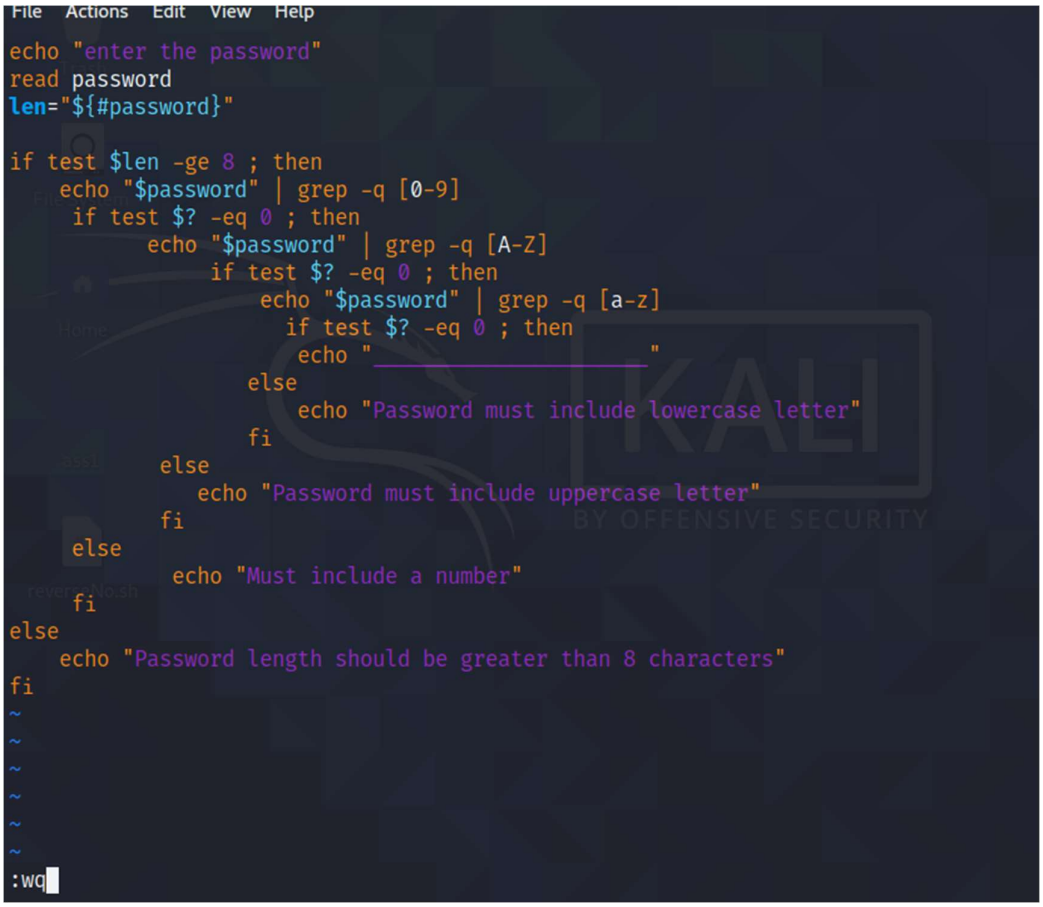
Write a script that takes a number as an input and reverses it out to the user. For example, if the original number is 74985, the output should be 58947.

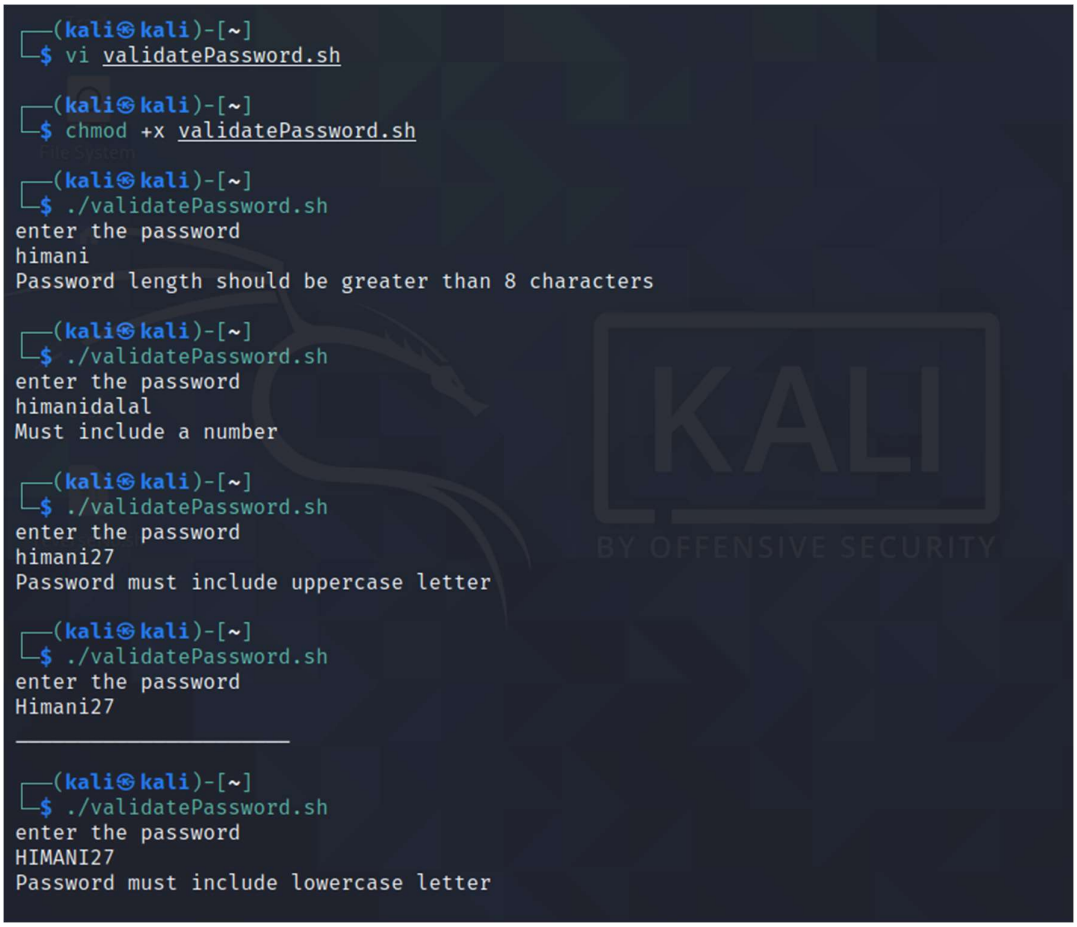


Assignment 3

Write a script to validate how secure someone's password is. Things you would care about:

- **Length should be 8 or more characters**
- **The password should contain numbers and letters**
- **There should be both uppercase and lowercase letters**




(kali㉿kali)-[~]
$ vi validatePassword.sh
(kali㉿kali)-[~]
$ chmod +x validatePassword.sh
(kali㉿kali)-[~]
$ ./validatePassword.sh
enter the password
himani
Password length should be greater than 8 characters
(kali㉿kali)-[~]
$ ./validatePassword.sh
enter the password
himanidalal
Must include a number
(kali㉿kali)-[~]
$ ./validatePassword.sh
enter the password
himani27
Password must include uppercase letter
(kali㉿kali)-[~]
$ ./validatePassword.sh
enter the password
Himani27
(kali㉿kali)-[~]
$ ./validatePassword.sh
enter the password
HIMANI27
Password must include lowercase letter