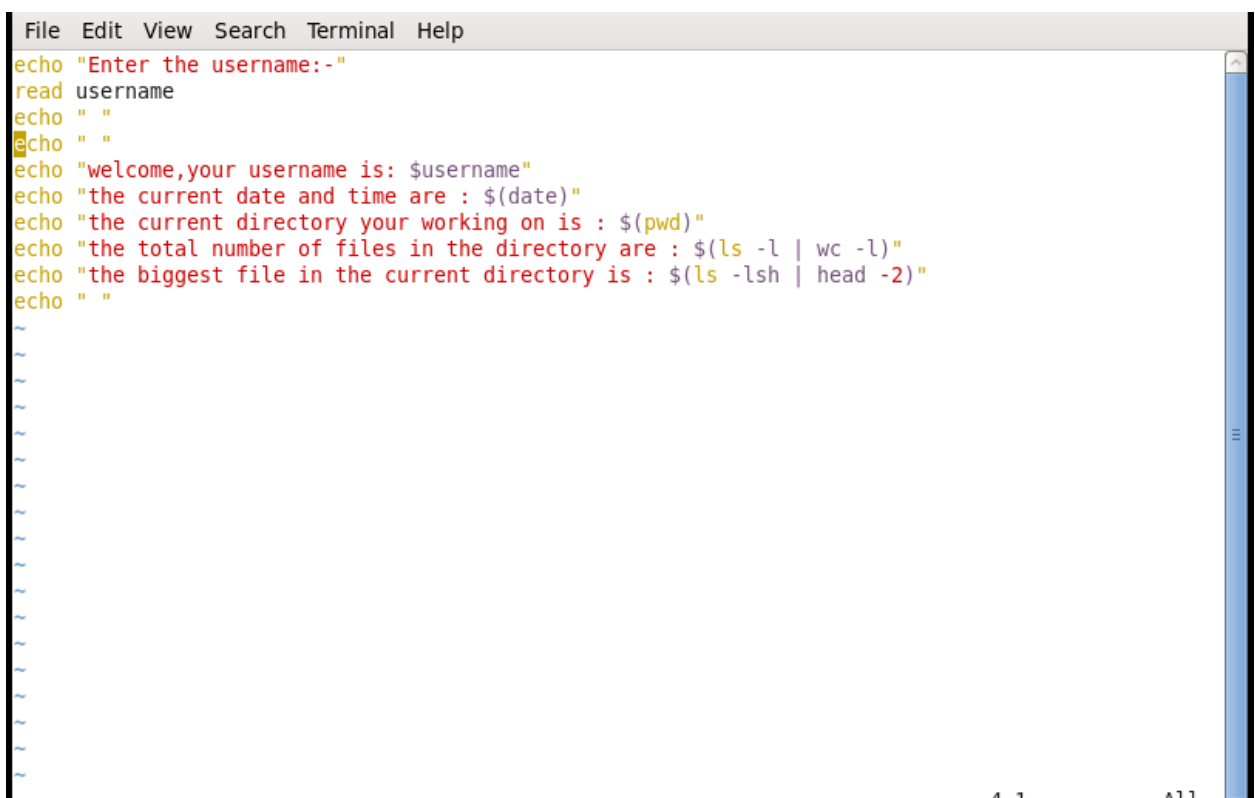


ASSIGNMENT DAY – 8

Assignment 0. Create a simple shell script to tell the user about their session – they need to know,

- i. What their username is
- ii. What the current date is
- iii. What the time is
- iv. What their current working directory is
- v. How many files they have in that directory
- vi. What is the biggest file in their current directory

A screenshot of a terminal window with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays a shell script that prompts for a username, then outputs the username, date, time, current directory, total number of files, and the name of the largest file. The script uses variables and command-line utilities like date, pwd, ls, wc, and head. The prompt character is a tilde (~).

```
File Edit View Search Terminal Help
echo "Enter the username:-"
read username
echo " "
echo " "
echo "welcome,your username is: $username"
echo "the current date and time are : $(date)"
echo "the current directory your working on is : $(pwd)"
echo "the total number of files in the directory are : $(ls -l | wc -l)"
echo "the biggest file in the current directory is : $(ls -lsh | head -2)"
echo " "
```

```
File Edit View Search Terminal Help
[solomon@samael ~]$ ./zeroth.sh
Enter the username:-
solomon

welcome,your username is: solomon
the current date and time are : Sat Dec 12 17:16:38 IST 2020
the current directory your working on is : /home/solomon
the total number of files in the directory are : 14
the biggest file in the current directory is : total 52K
4.0K -rw-rw-r--. 1 solomon solomon 10 Dec 9 17:41 1

[solomon@samael ~]$
```

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.

[illegible]

```
File Edit View Search Terminal Help
[solomon@samael first]$ ls -la
total 12
drwxrwxr-x.  2 solomon solomon 4096 Dec 12 17:38 .
drwx-----. 25 solomon solomon 4096 Dec 12 17:38 ..
-rw-rw-r--.  1 solomon solomon   0 Dec 12 17:25 fileA_20201212_20201212.
-rw-rw-r--.  1 solomon solomon   0 Dec 12 17:25 fileB_20201212_20201212.
-rw-rw-r--.  1 solomon solomon   0 Dec 12 17:26 fileC_20201212_20201212.
-rwxrwxr-x.  1 solomon solomon  136 Dec 12 17:38 first.sh
[solomon@samael first]$
```

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.

[illegible]

File Edit View Search Terminal Help

```
[solomon@samael ~]$ vi second.sh
```

```
[solomon@samael ~]$ ./second.sh
```

```
enter the number which you want to reverse :74985
```

```
the reversed number is :
```

```
58947
```

```
[solomon@samael ~]$ █
```

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

```
File Edit View Search Terminal Help
#!/bin/bash
echo ""
echo "enter the password"
echo ""
read password
length=${#password}
if [ $length -ge 8 ]; then
echo "$password" | grep -q [0-9]
if [ $? -eq 0 ]; then
echo "$password" | grep -q [A-Z]
if [ $? -eq 0 ]; then
echo "$password" | grep -q [a-z]
if [ $? -eq 0 ]; then
echo "$password" | grep -q [@,#,$,%,&^]
if [ $? -eq 0 ]; then
echo "perfect a strong password..."
else
echo ""
echo "weak password!!!!!"
echo "password must contain numbers, uppercase, lowercaseand special characters"
fi
else
echo ""
echo "weak password!!!!!"
echo "password must contain numbers, uppercase, lowercaseand special characters"
fi
else
echo ""
echo "weak password!!!!!"
echo "password must contain numbers, uppercase, lowercaseand special characters"
fi
else
echo ""
echo "weak password!!!!!"
echo "password must contain numbers, uppercase, lowercaseand special characters"
fi
else
echo ""
echo "weak password!!!!! password length must be >=8"
fi
echo ""
~
~
~
~
~
~
~
```

File Edit View Search Terminal Help

```
[solomon@samael ~]$ touch third.sh
[solomon@samael ~]$ vi third.sh
[solomon@samael ~]$ chmod +x third.sh
[solomon@samael ~]$ ./third.sh

enter the password

12345678

weak password!!!!
password must contain numbers, uppercase, lowercase and special characters

[solomon@samael ~]$ ./third.sh

enter the password

12345678A

weak password!!!!
password must contain numbers, uppercase, lowercase and special characters

[solomon@samael ~]$ ./third.sh

enter the password

1234578Aa

weak password!!!!
password must contain numbers, uppercase, lowercase and special characters

[solomon@samael ~]$ ./third.sh

enter the password

12345678Aa@
perfect a strong password...

[solomon@samael ~]$ vi third.sh
[solomon@samael ~]$ █
```