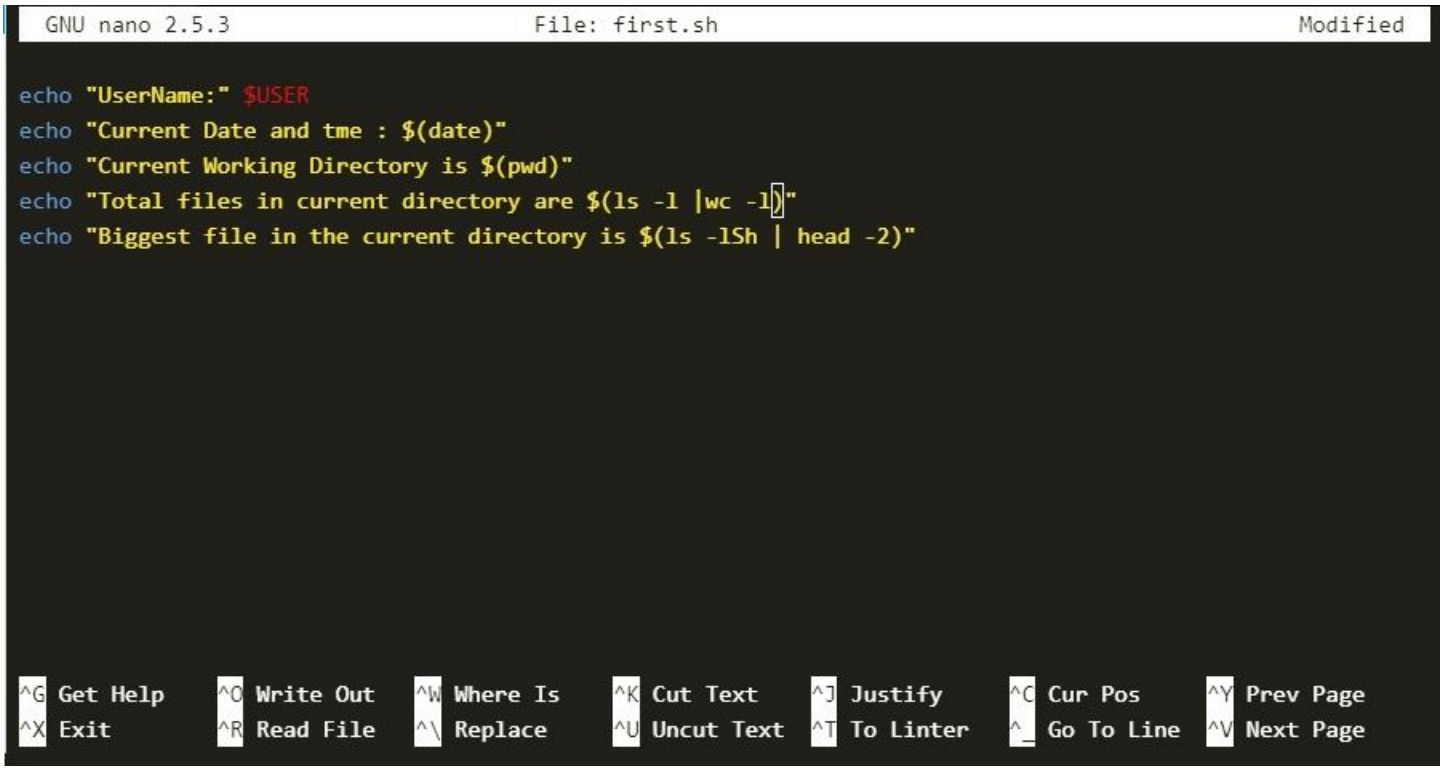
ASSIGNMENT - 8

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



```
$ chmod +x first.sh
$ ./first.sh
UserName: root
Current Date and tme : Sat 12 Dec 10:29:19 UTC 2020
Current Working Directory is /root
Total files in current directory are 2
Biggest file in the current directory is total 4.0K
-rwxr-xr-x 1 root root 233 Dec 12 10:28 first.sh
$
```

2. 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.

```
$ mkdir secondq
$ touch file1.txt
$ touch file2.txt
$ touch file3.txt
$ touch file4.txt
$ touch second.sh
$ ls
file1.txt  file2.txt  file3.txt  file4.txt  secondq  second.sh
$
```

```
#!/bin/bash

for i in ".txt";
do mv -v $i "$basename $i.$(date + '%Y%m%d').txt";
done
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-- INSERT (paste) --
```

3. 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.

```
#!/bin/bash
echo ""
read -p "Enter a number:" num
echo "Reverse number is :"
echo $num | rev
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```

```
$ vim reverse.sh
$ chmod +x reverse.sh
$ ./reverse.sh

Enter a number:89636
Reverse number is :
63698
$
```

4. 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

```
#!/bin/bash

read -p "Enter Password:" pass
COUNT=`echo ${#pass}`
if [[ $COUNT -lt 8 ]]; then
echo "Password should be of 8 characters"
exit 1;
fi

echo $pass | grep "[A-Z]" | grep "[a-z]" | grep [0-9]"

if [[ $? -ne 0 ]]; then

echo "Paassword must contain atleast one upeercase, 1 lowercase and 1 number"
exit 2;

fi
echo "Your password is strong enough"


^G Get Help    ^O Write Out   ^W Where Is    ^K Cut Text    ^J Justify     ^C Cur Pos     ^Y Prev Page
^X Exit        ^R Read File   ^\ Replace     ^U Uncut Text  ^T To Linter   ^_ Go To Line  ^V Next Page
```


$ ls
password.sh
$ ./password.sh
Enter Password:456976
Password should be of 8 characters
$