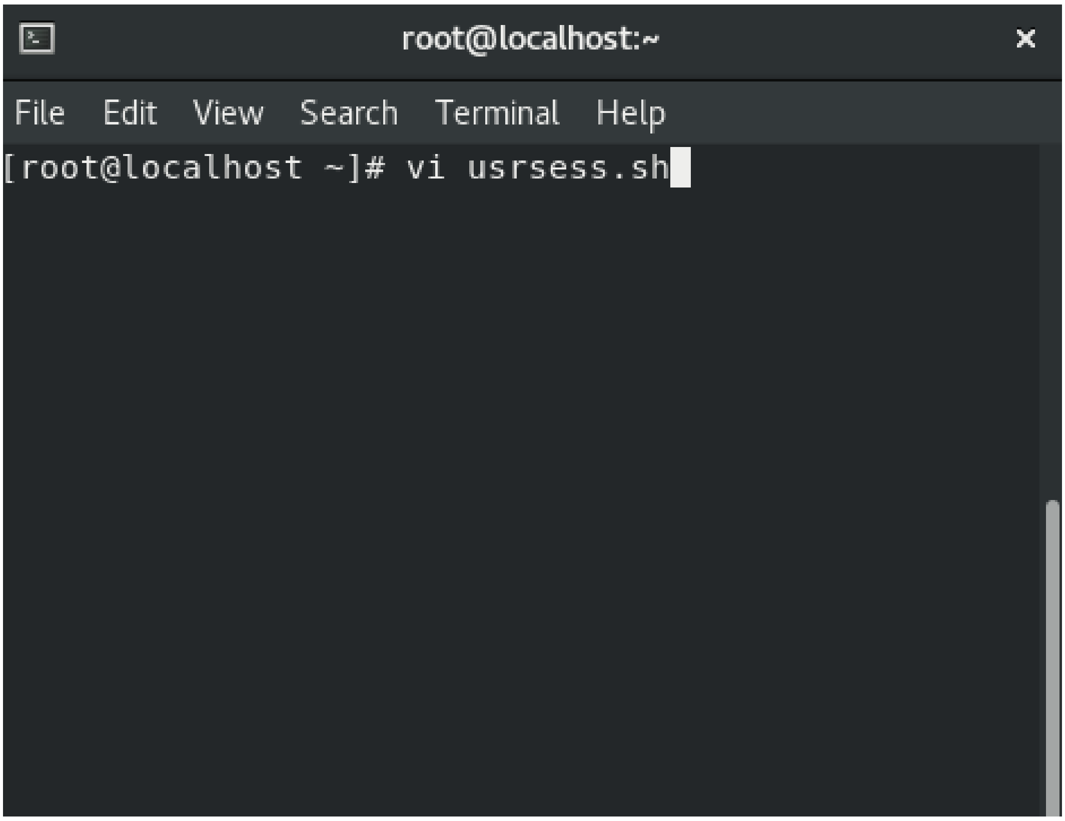
# **Assignment 0**

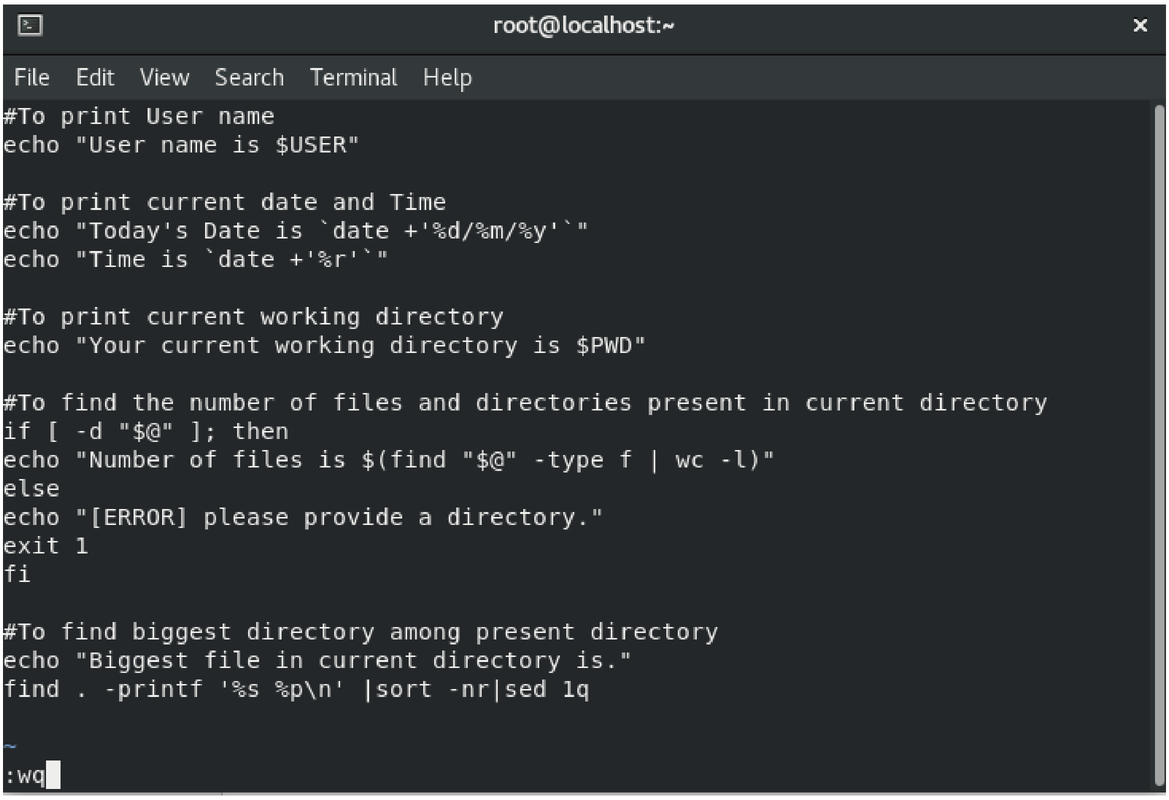
1. Create a simple shell script to tell the user about their session – they need to know:

- 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

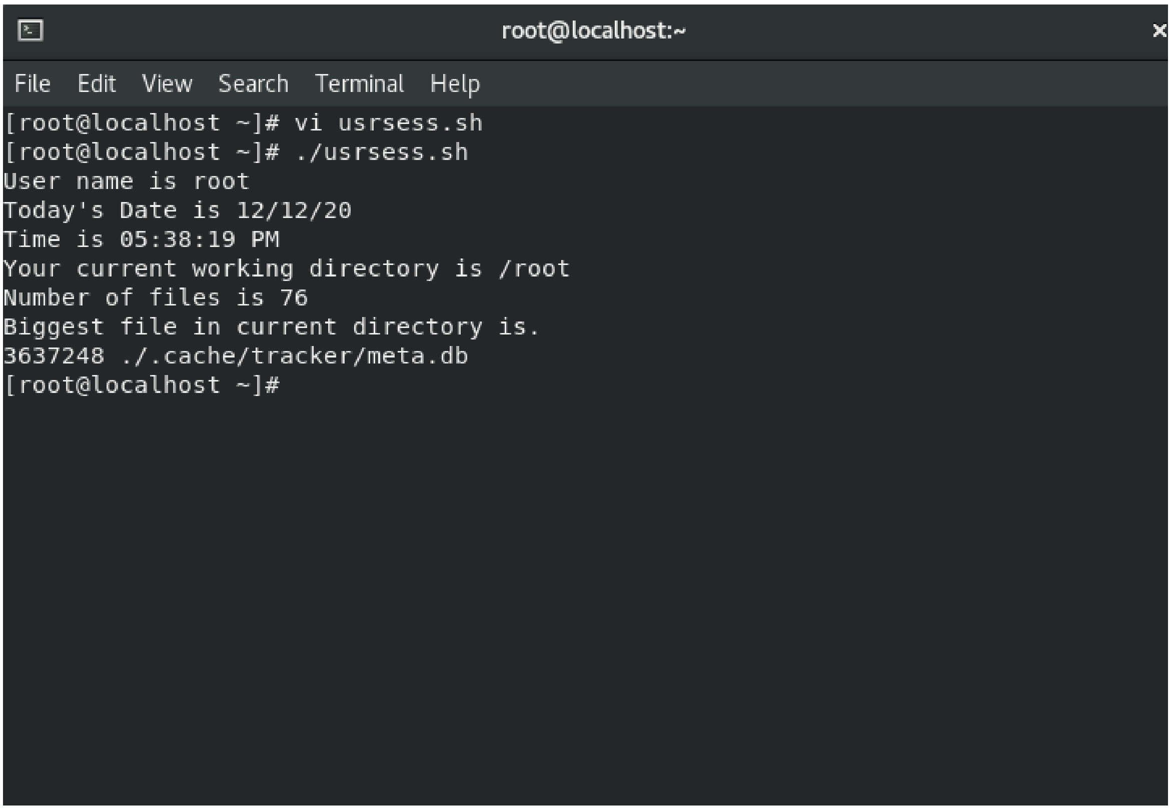
Ans.



```
[root@localhost ~]# vi usrsess.sh
```



```
#To print User name
echo "User name is $USER"

#To print current date and Time
echo "Today's Date is `date +'%d/%m/%y'`"
echo "Time is `date +'%r'`"

#To print current working directory
echo "Your current working directory is $PWD"

#To find the number of files and directories present in current directory
if [ -d "$@" ]; then
echo "Number of files is $(find "$@" -type f | wc -l)"
else
echo "[ERROR] please provide a directory."
exit 1
fi

#To find biggest directory among present directory
echo "Biggest file in current directory is."
find . -printf '%s %p\n' |sort -nr|sed 1q

~
:wq
```

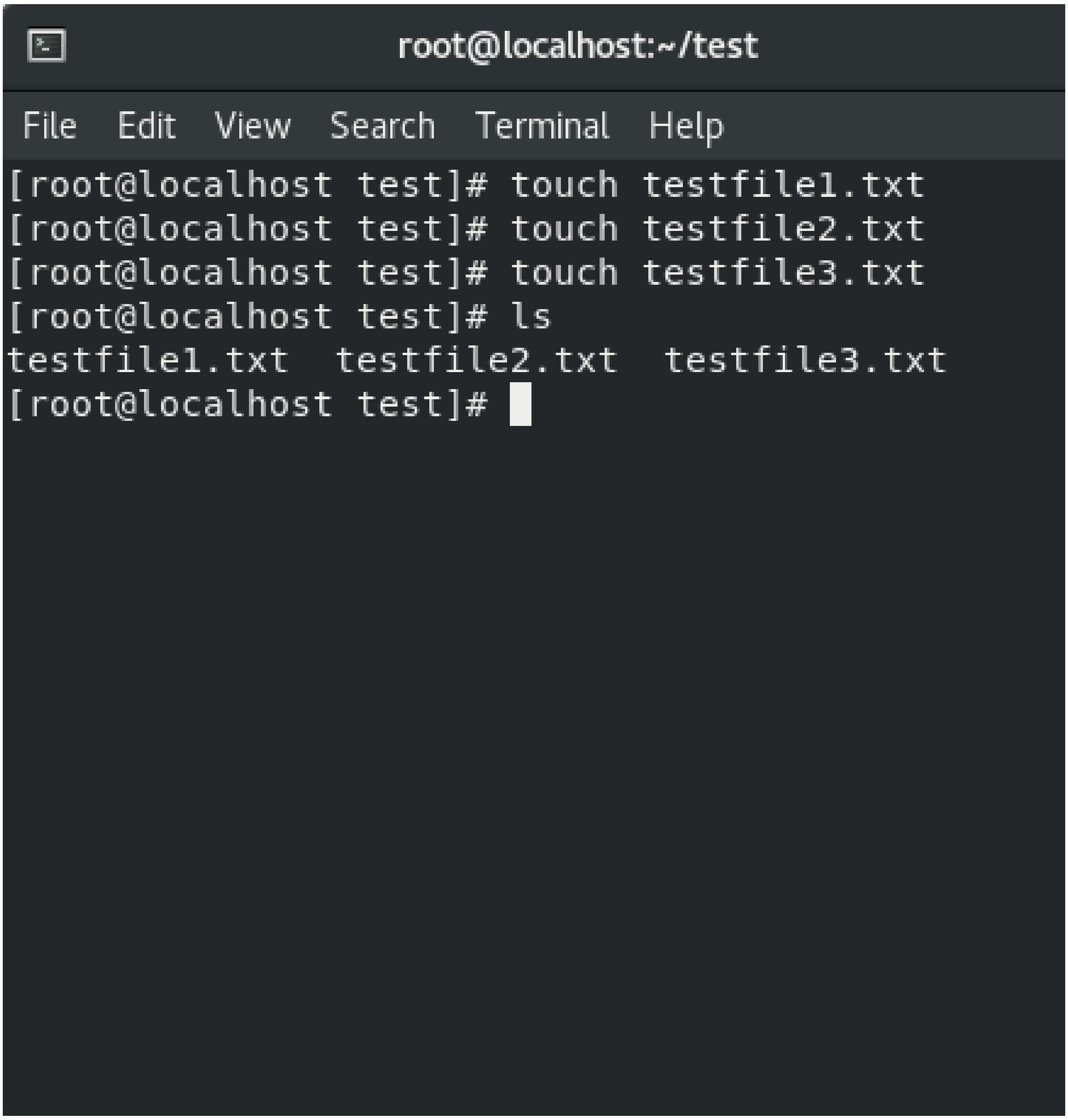


```
[root@localhost ~]# vi usrsess.sh
[root@localhost ~]# ./usrsess.sh
User name is root
Today's Date is 12/12/20
Time is 05:38:19 PM
Your current working directory is /root
Number of files is 76
Biggest file in current directory is.
3637248 ./.cache/tracker/meta.db
[root@localhost ~]#
```

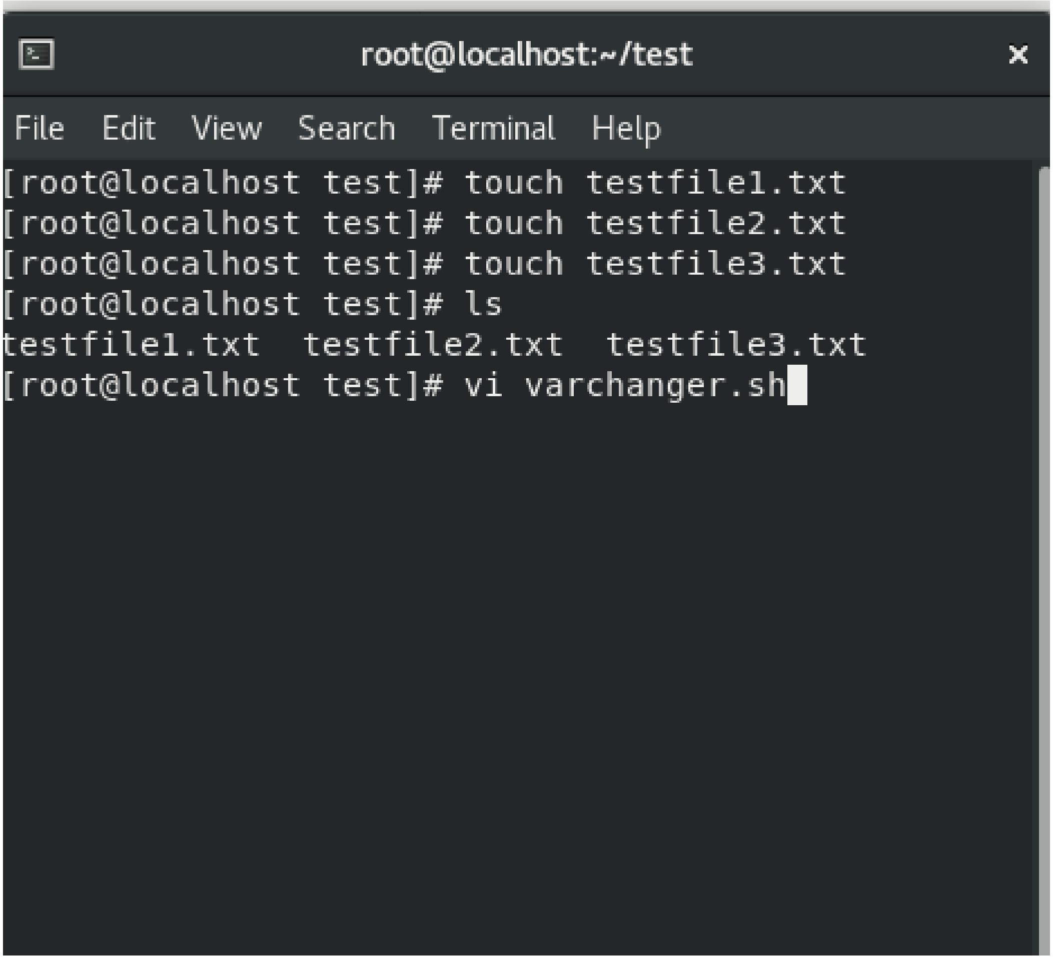
*NOTE:- In case you are running this command for the first time kindly use “ chmod +x usrsess.sh

# Assignment 1

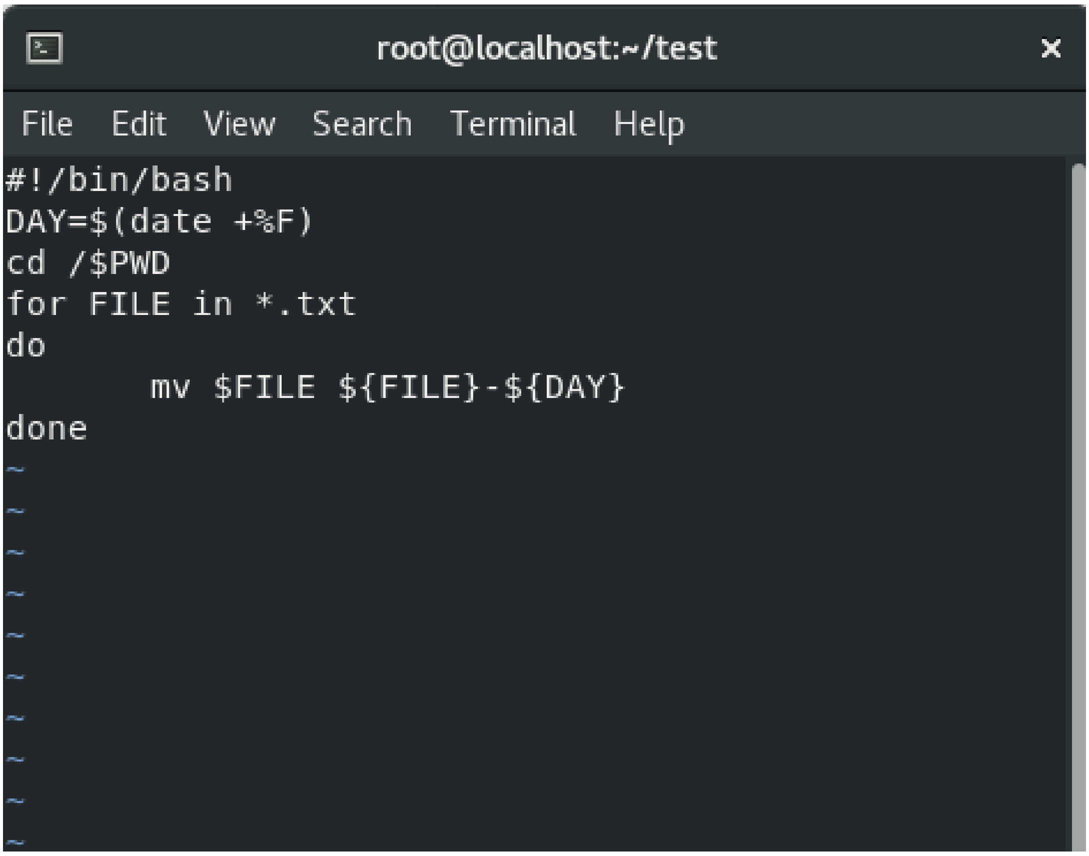
Create a directory with a few test files in it (the files can be empty). Now write a script that for every file in that directory you rename it to have an extension of today's date in YYYYMMDD format. Assignment



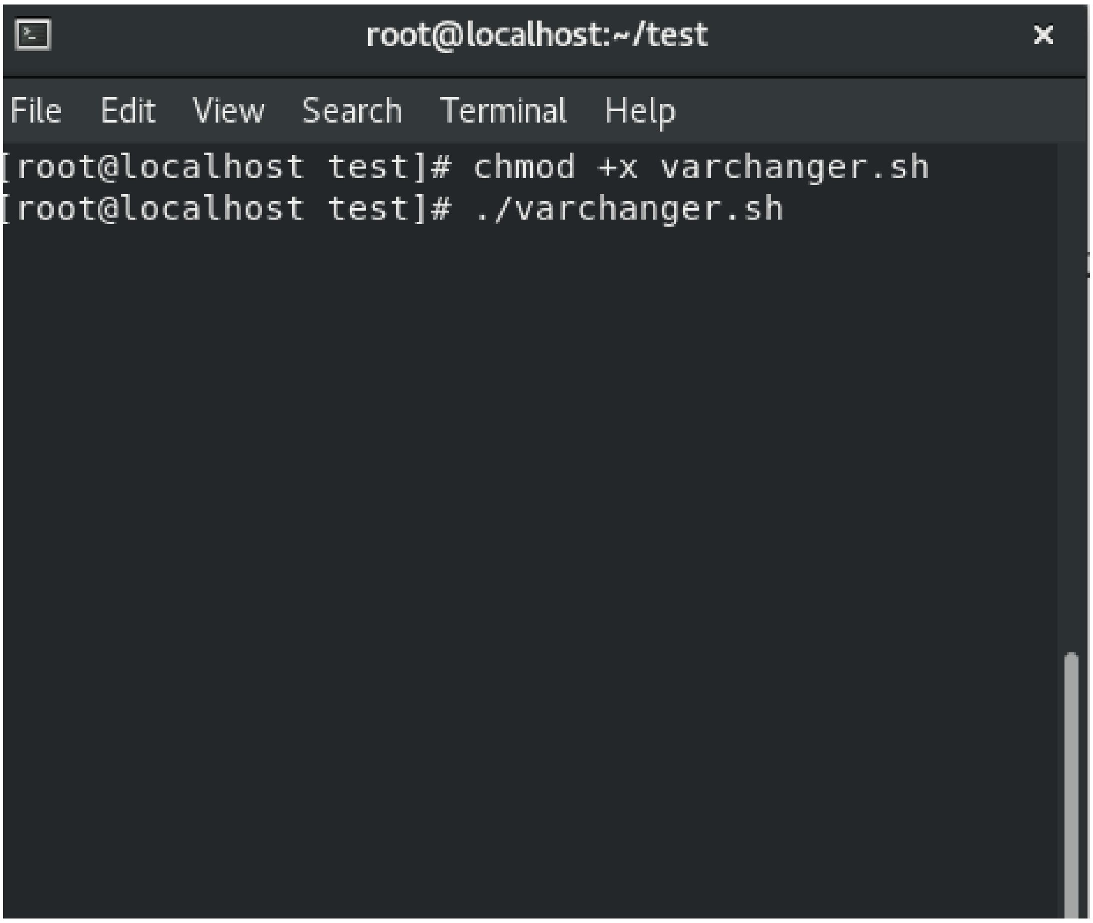
```
[root@localhost test]# touch testfile1.txt
[root@localhost test]# touch testfile2.txt
[root@localhost test]# touch testfile3.txt
[root@localhost test]# ls
testfile1.txt  testfile2.txt  testfile3.txt
[root@localhost test]# 
```



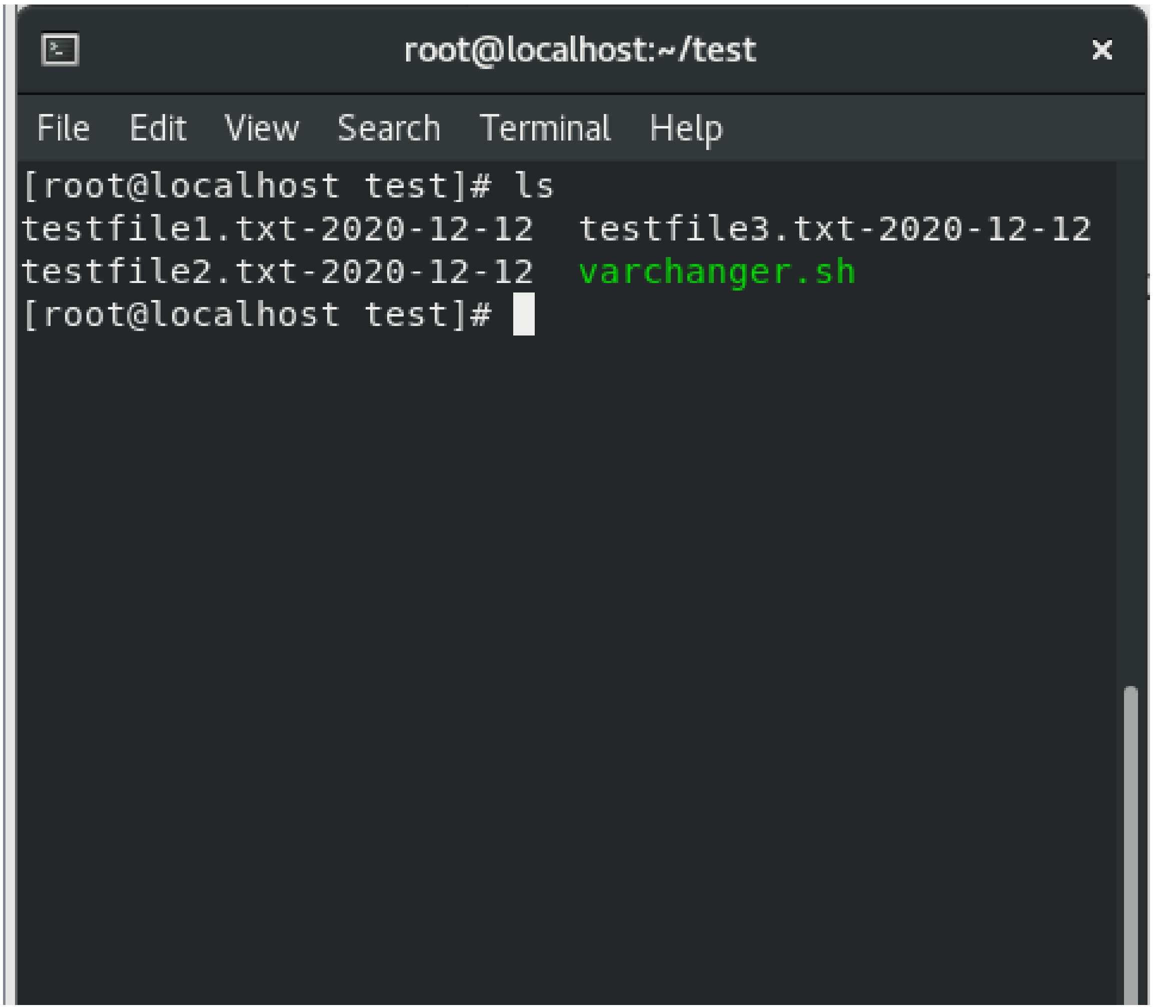
```
[root@localhost test]# touch testfile1.txt
[root@localhost test]# touch testfile2.txt
[root@localhost test]# touch testfile3.txt
[root@localhost test]# ls
testfile1.txt  testfile2.txt  testfile3.txt
[root@localhost test]# vi varchanger.sh
```



```
#!/bin/bash
DAY=$(date +%F)
cd /$PWD
for FILE in *.txt
do
       mv $FILE ${FILE}-${DAY}
done
~
~
~
~
~
~
~
~
~
~
```



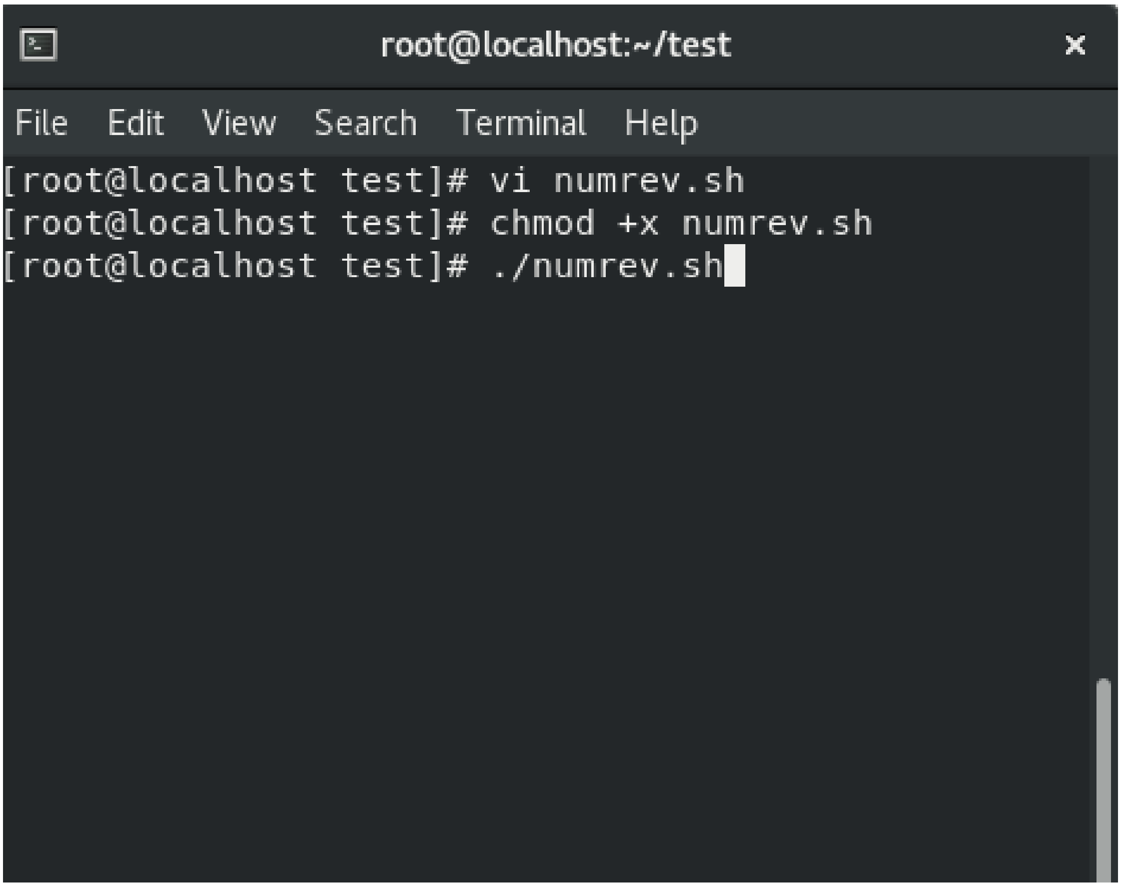
```
[root@localhost test]# chmod +x varchanger.sh
[root@localhost test]# ./varchanger.sh
```



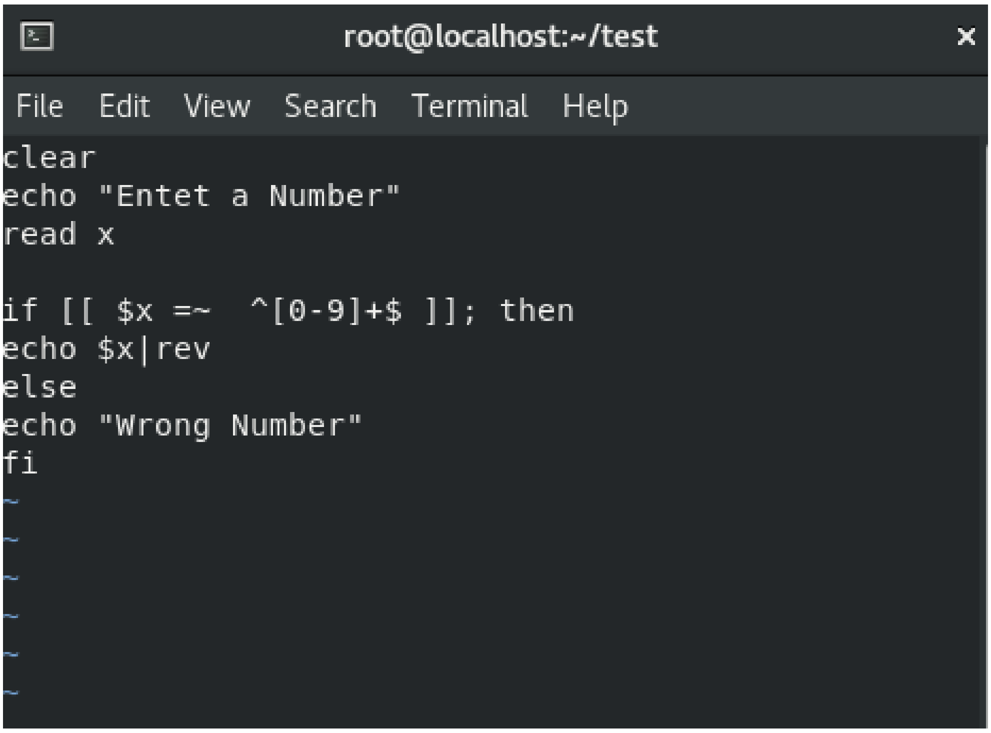
```
[root@localhost test]# ls
testfile1.txt-2020-12-12  testfile3.txt-2020-12-12
testfile2.txt-2020-12-12  varchanger.sh
[root@localhost test]# 
```

# Assignment 2

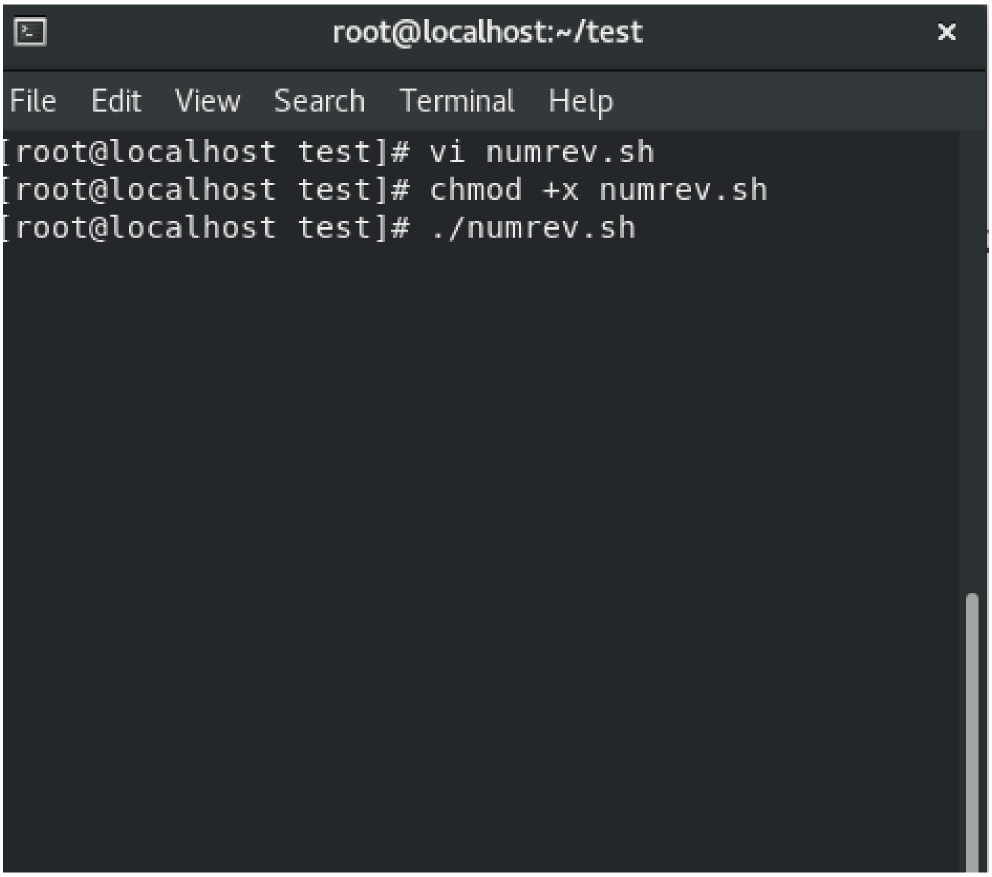
Write a script that takes a number as an input and reverses it out to the user. For example, if the original number is 74985, the output should be 58947.



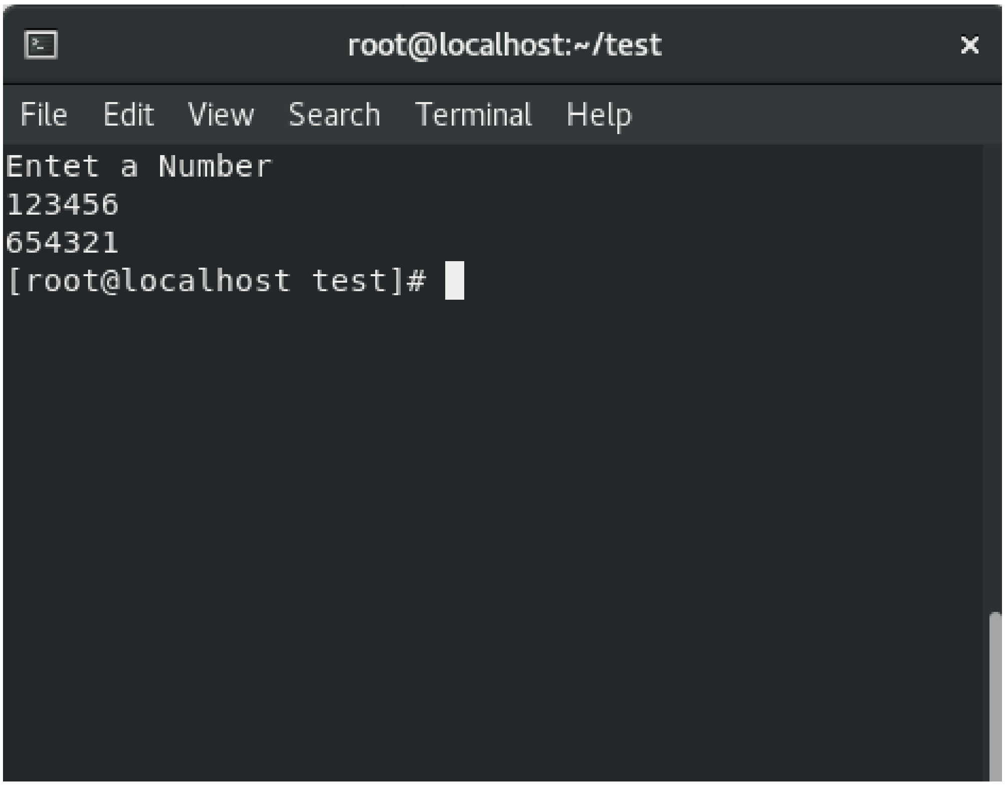
```
[root@localhost test]# vi numrev.sh
[root@localhost test]# chmod +x numrev.sh
[root@localhost test]# ./numrev.sh
```



```
clear
echo "Entet a Number"
read x

if [[ $x =~  ^[0-9]+$ ]]; then
echo $x|rev
else
echo "Wrong Number"
fi
~
~
~
~
~
~
```



```
[root@localhost test]# vi numrev.sh
[root@localhost test]# chmod +x numrev.sh
[root@localhost test]# ./numrev.sh
```

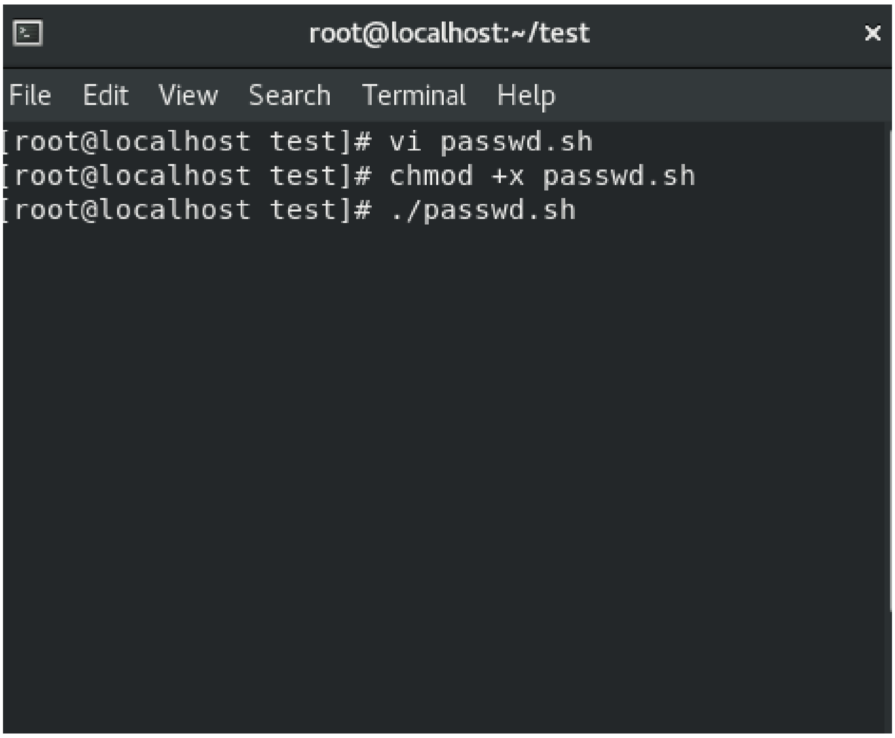


```
Entet a Number
123456
654321
[root@localhost test]#
```

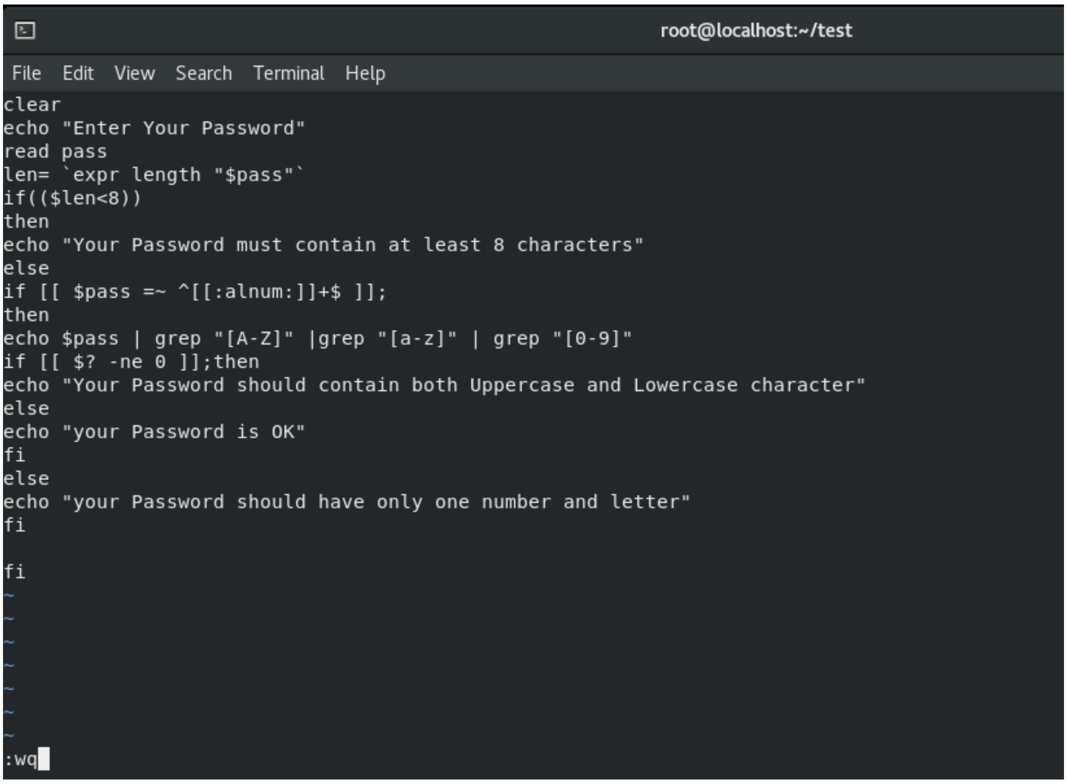
## Assignment 3

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

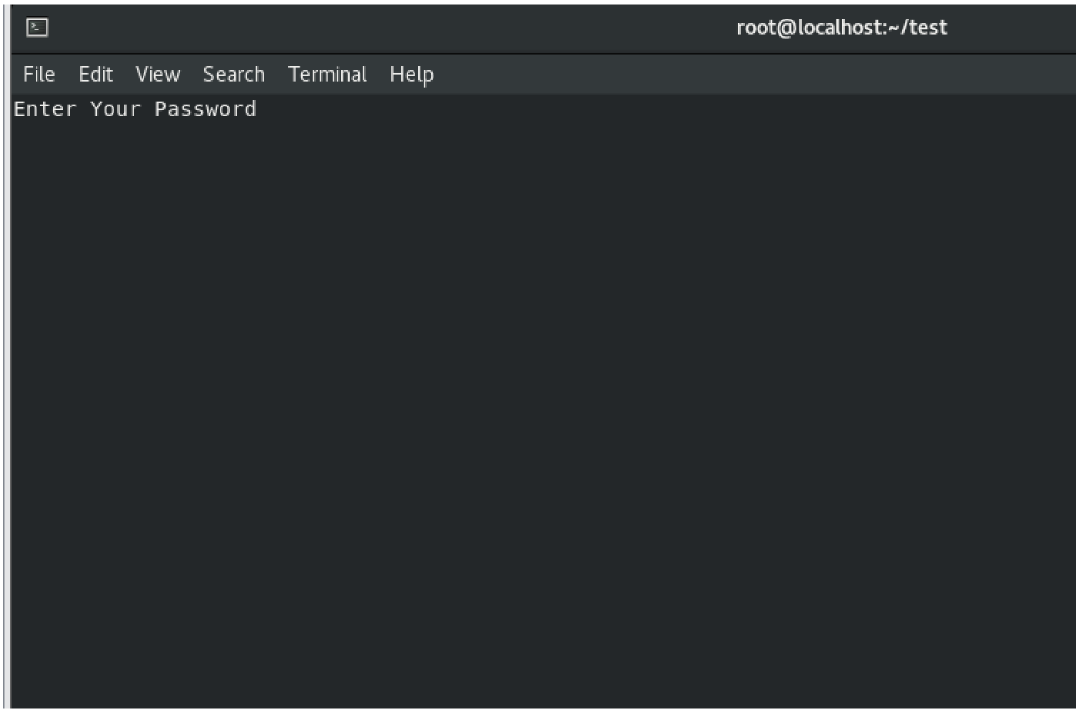
- Length should be 8 or more characters
- The password should contain numbers and letters
- There should be both uppercase and lowercase letters



```
[root@localhost test]# vi passwd.sh
[root@localhost test]# chmod +x passwd.sh
[root@localhost test]# ./passwd.sh
```



```
clear
echo "Enter Your Password"
read pass
len= `expr length "$pass"`
if(($len<8))
then
echo "Your Password must contain at least 8 characters"
else
if [[ $pass =~ ^[[:alnum:]]+$ ]];
then
echo $pass | grep "[A-Z]" |grep "[a-z]" | grep "[0-9]"
if [[ $? -ne 0 ]];then
echo "Your Password should contain both Uppercase and Lowercase character"
else
echo "your Password is OK"
fi
else
echo "your Password should have only one number and letter"
fi

fi
~
~
~
~
~
~
~
:wq
```



```
Enter Your Password
```