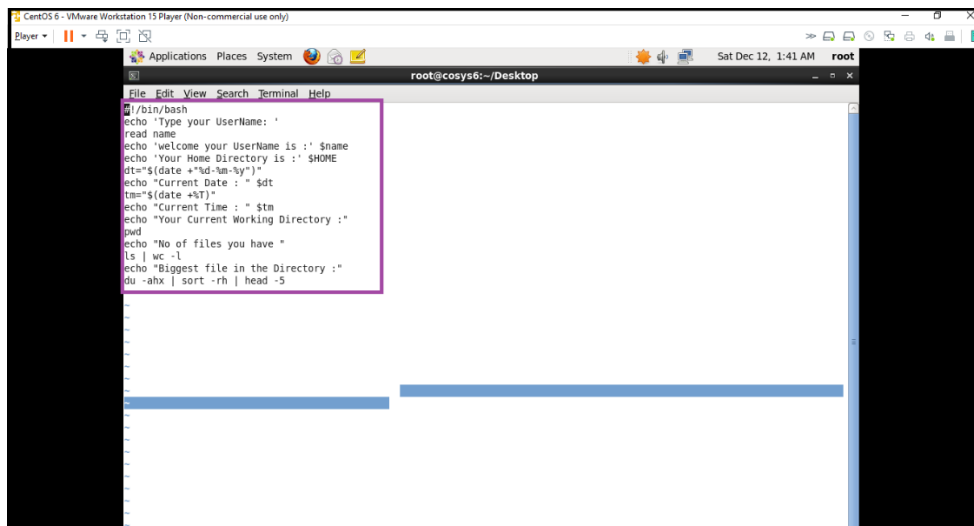


## Assignment 0

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

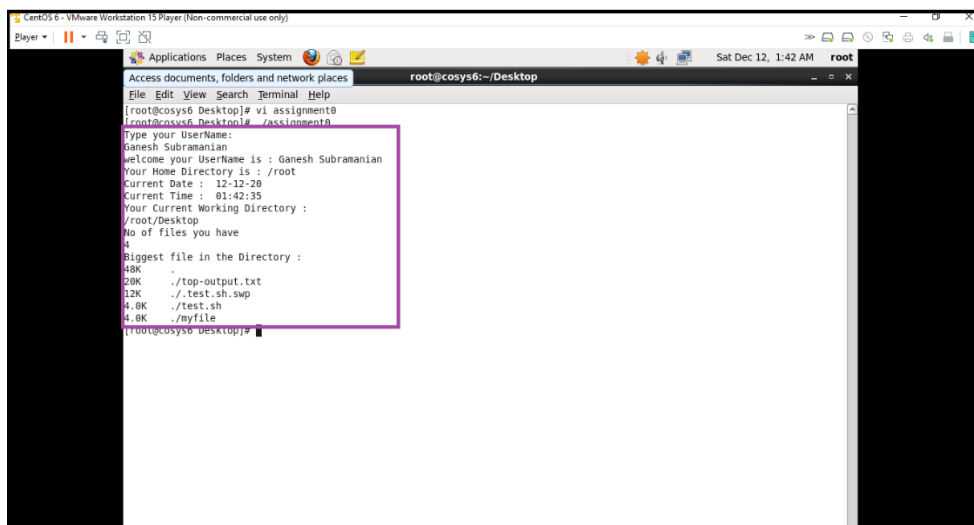
- What their username is
- What the current date is
- What the time is
- What their current working directory is
- How many files they have in that directory
- What is the biggest file in their current directory

Screenshot 1:



```
root@cosys6:~/Desktop
File Edit View Search Terminal Help
~/bin/bash
echo "Type your UserName: "
read name
echo "welcome your UserName is : " $name
echo "Your Home Directory is : " $HOME
dt=$(date +%d-%m-%y)
echo "Current Date : " $dt
tm=$(date +%T)
echo "Current Time : " $tm
echo "Your Current Working Directory : "
pwd
echo "No of files you have "
ls | wc -l
echo "Biggest file in the Directory : "
du -ahx | sort -rh | head -5
```

Screenshot 2:

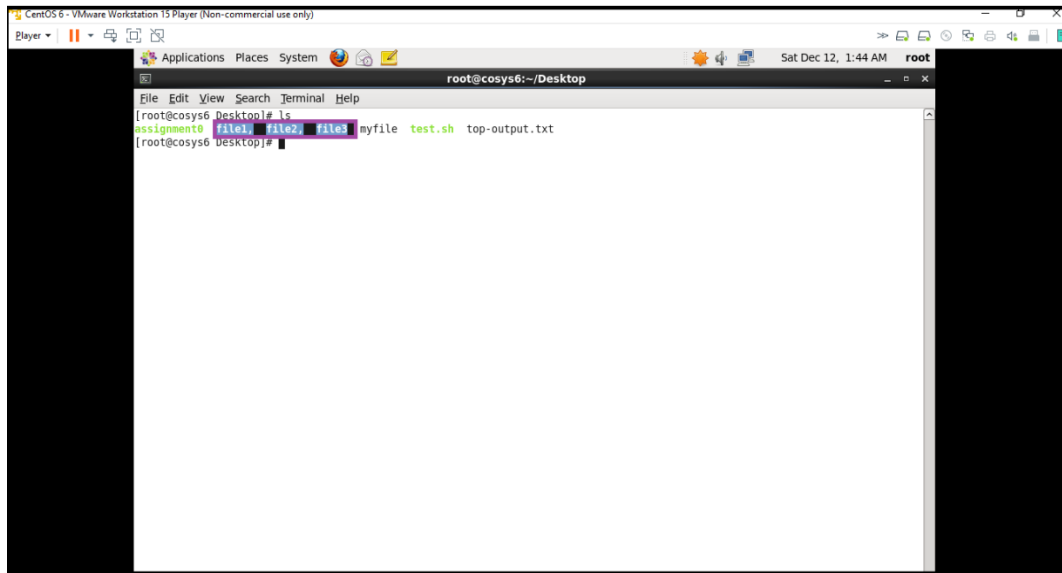


```
Access documents, folders and network places
File Edit View Search Terminal Help
[root@cosys6 Desktop]# vi assignment0
[root@cosys6 Desktop]# ./assignment0
Type your UserName:
Ganesh Subramanian
welcome your UserName is : Ganesh Subramanian
Your Home Directory is : /root
Current Date : 12-12-20
Current Time : 01:42:35
Your Current Working Directory :
/root/Desktop
No of files you have
4
Biggest file in the Directory :
48K .
20K ./top-output.txt
12K ./test.sh.swp
4.0K ./test.sh
4.0K ./myfile
[root@cosys6 Desktop]#
```

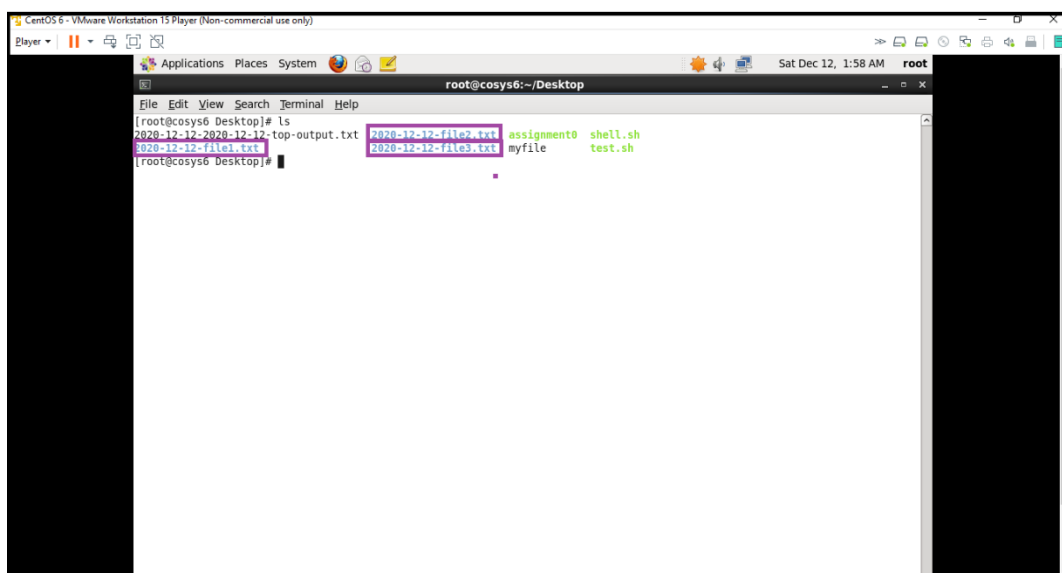
# Assignment 1

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.

### Screenshot 1:




### Screenshot 2:



## 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.

### Screenshot 1:



```
echo -n "Enter number"
read n

sd=0
rev=""
pn=$n

while [ $n -gt 0 ]
do
    sd=$(( $n % 10 ))
    n=$(( $n / 10 ))
    rev=$(( echo ${rev}${sd} ))
done

echo "$n in a reverse order $rev"
```

test.sh" 20L, 190C

### Screenshot 2:

CentOS 6 - VMware Workstation 15 Player (Non-commercial use only)

Player ▾ || 🔍 📄 🖨

Applications Places System 🌞 🔊 📄 Sat Dec 12, 1:29 AM root

root@cosys6:~/Desktop

File Edit View Search Terminal Help

```

root@cosys6 Desktop]# ./test.sh
Enter number 987654321
987654321 in a reverse order 123456789
root@cosys6 Desktop]#

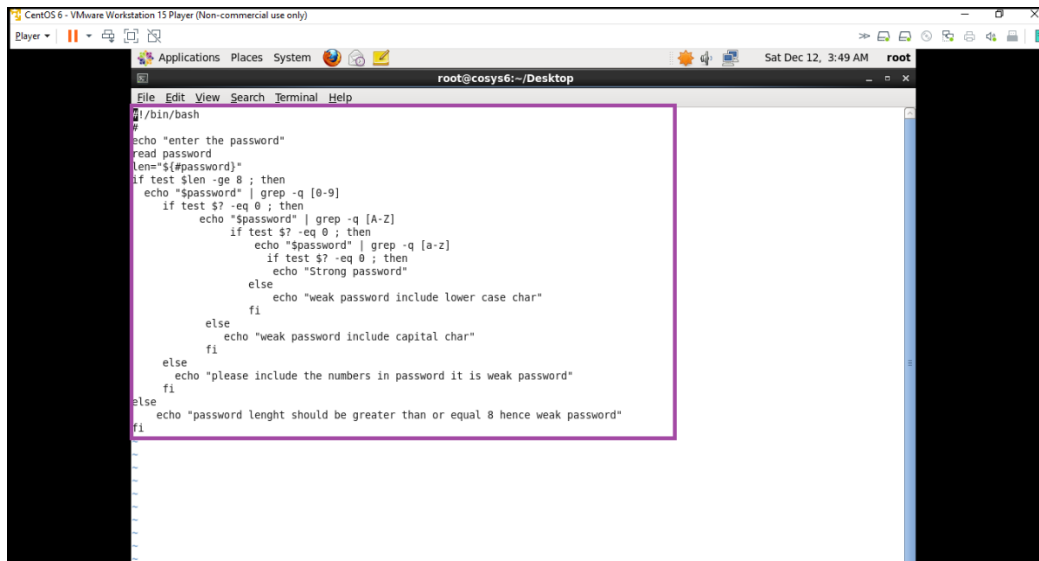
```

## Assignment 3

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

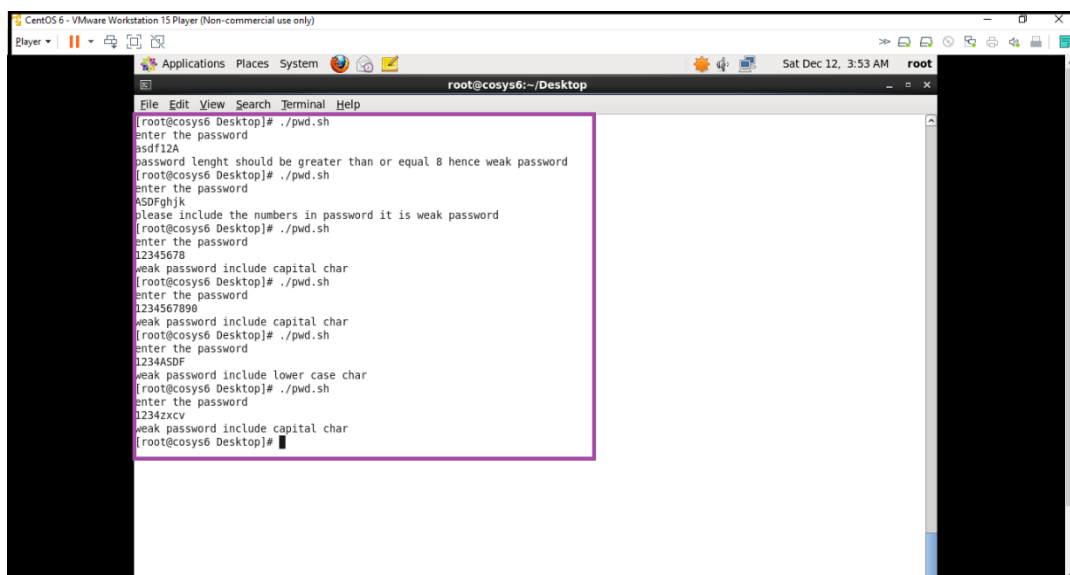
- Length should be 8 or more characters
- The password should contain numbers and letters
- There should be both uppercase and lowercase letters

Screenshot 1:



```
CentOS 6 - VMware Workstation 15 Player (Non-commercial use only)
Player
Applications Places System
root@cosys6:~/Desktop
File Edit View Search Terminal Help
~/bin/bash
#
echo "enter the password"
read password
len=${#password}
if test $len -ge 8 ; then
  echo "$password" | grep -q [0-9]
  if test $? -eq 0 ; then
    echo "$password" | grep -q [A-Z]
    if test $? -eq 0 ; then
      echo "$password" | grep -q [a-z]
      if test $? -eq 0 ; then
        echo "Strong password"
      else
        echo "weak password include lower case char"
      fi
    else
      echo "weak password include capital char"
    fi
  else
    echo "please include the numbers in password it is weak password"
  fi
else
  echo "password lenght should be greater than or equal 8 hence weak password"
fi
```

Screenshot 2:



```
CentOS 6 - VMware Workstation 15 Player (Non-commercial use only)
Player
Applications Places System
root@cosys6:~/Desktop
File Edit View Search Terminal Help
[root@cosys6 Desktop]# ./pwd.sh
enter the password
bsdfl12A
password lenght should be greater than or equal 8 hence weak password
[root@cosys6 Desktop]# ./pwd.sh
enter the password
ASDFghjk
please include the numbers in password it is weak password
[root@cosys6 Desktop]# ./pwd.sh
enter the password
12345678
weak password include capital char
[root@cosys6 Desktop]# ./pwd.sh
enter the password
1234567890
weak password include capital char
[root@cosys6 Desktop]# ./pwd.sh
enter the password
1234ASDF
weak password include lower case char
[root@cosys6 Desktop]# ./pwd.sh
enter the password
1234zxcv
weak password include capital char
[root@cosys6 Desktop]#
```