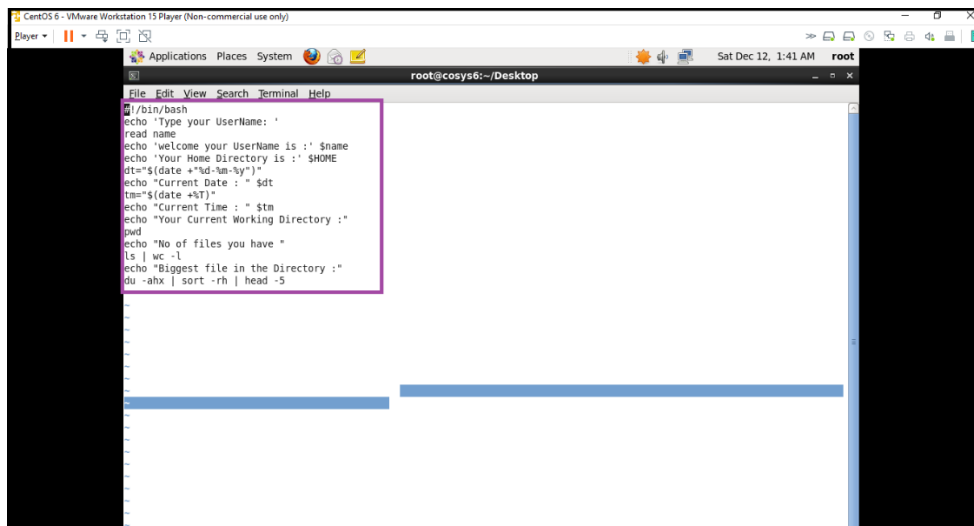# Assignment 0

1. Create a simple shell script to tell the user about their session – they need to know:
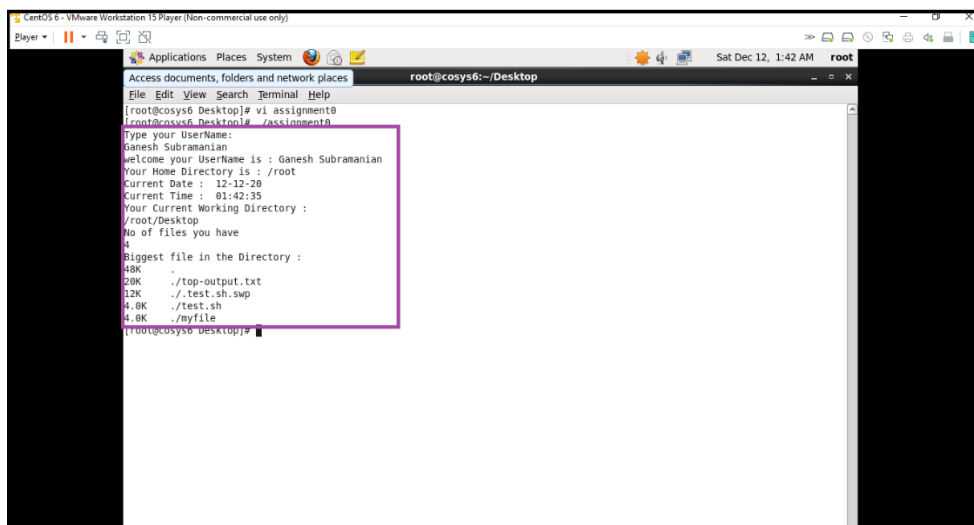● What their username is
● What the current date is
● What the time is
● What their current working directory is
● How many files they have in that directory
● What is the biggest file in their current directory

Screenshot 1:

Screenshot 2:

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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:

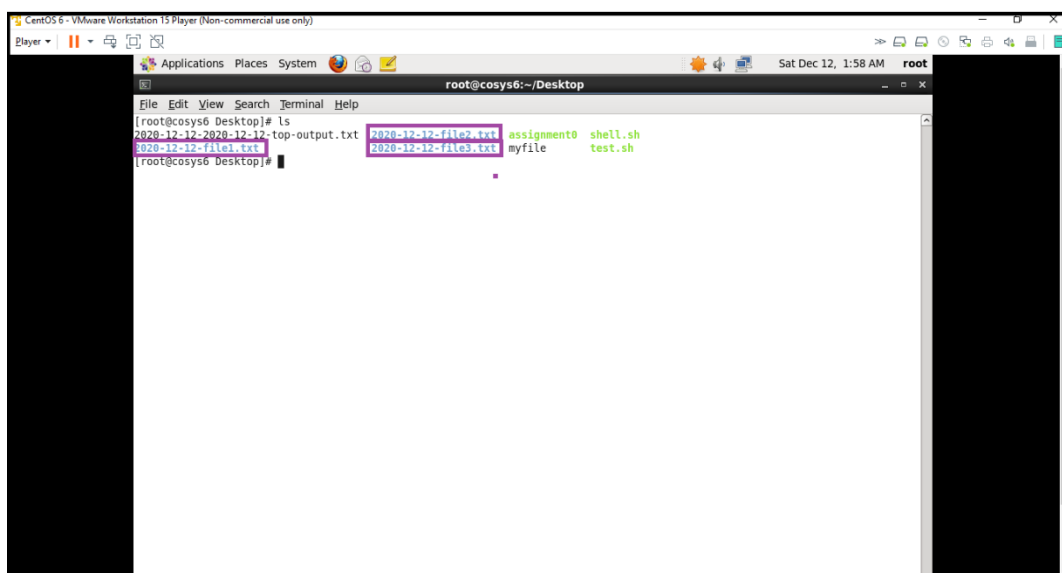**Screenshot 2:**

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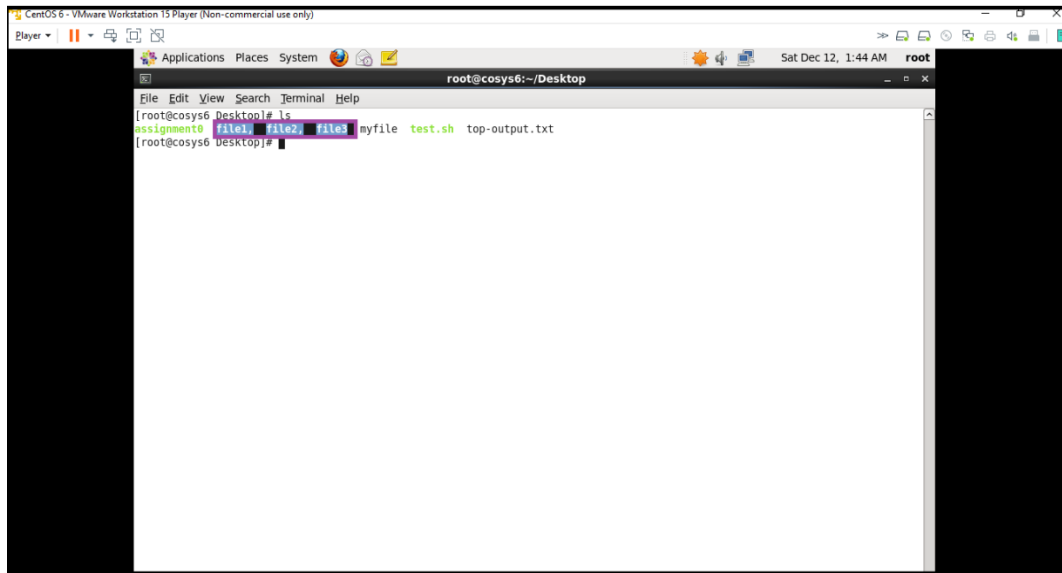
Assignment 2

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=""

on=$n

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

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

Screenshot 2:


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

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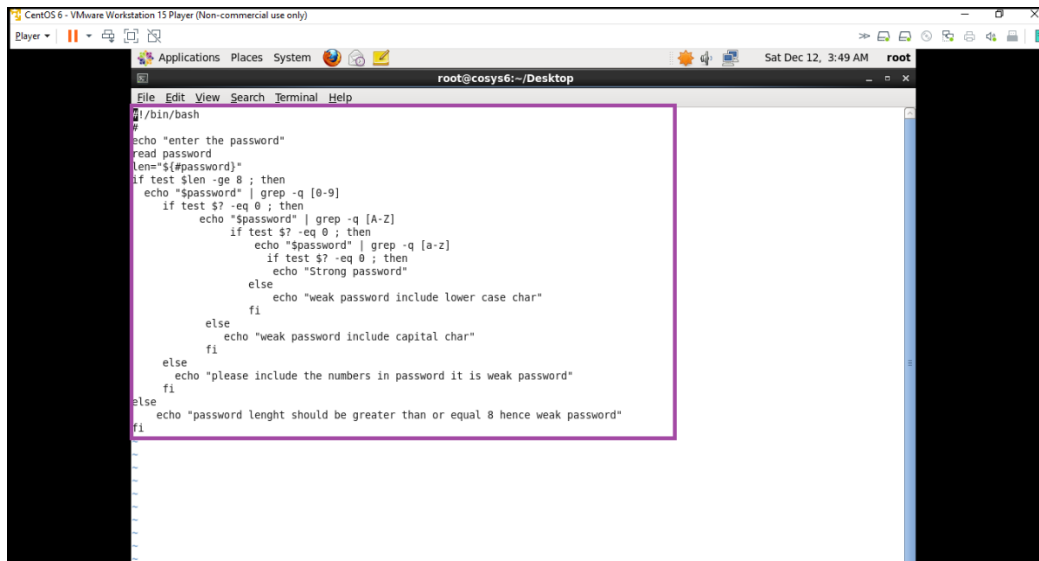# Assignment 3

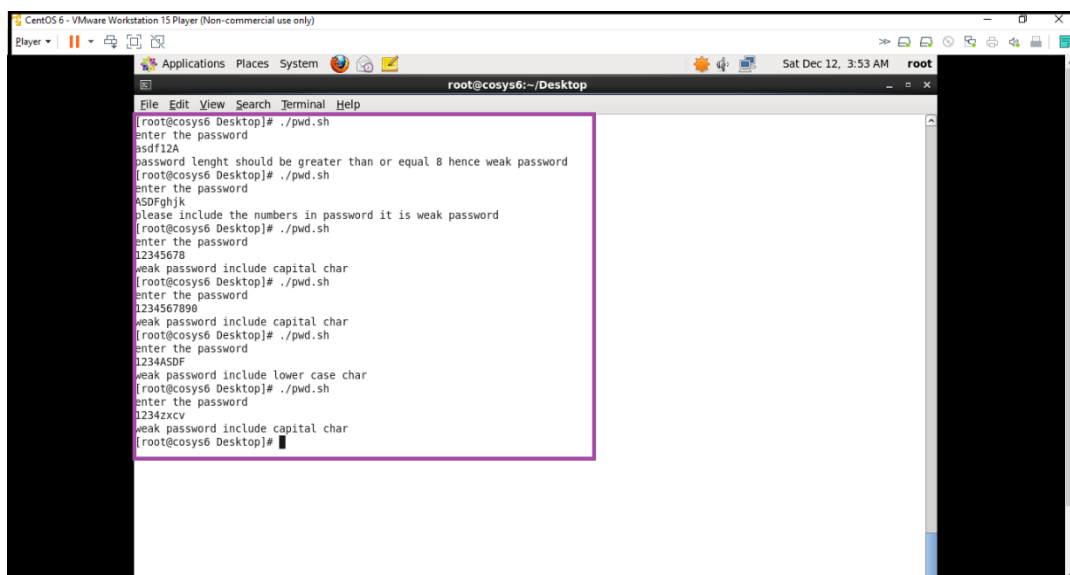Write a script to validate how secure someone's password is. Things you would care about:
● Length should be 8 or more characters
● The password should contain numbers and letters
● There should be both uppercase and lowercase letters

Screenshot 1:


```
#!/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:


```
[root@cosys6 Desktop]# ./pwd.sh
enter the password
asdf12A
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]#
```

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