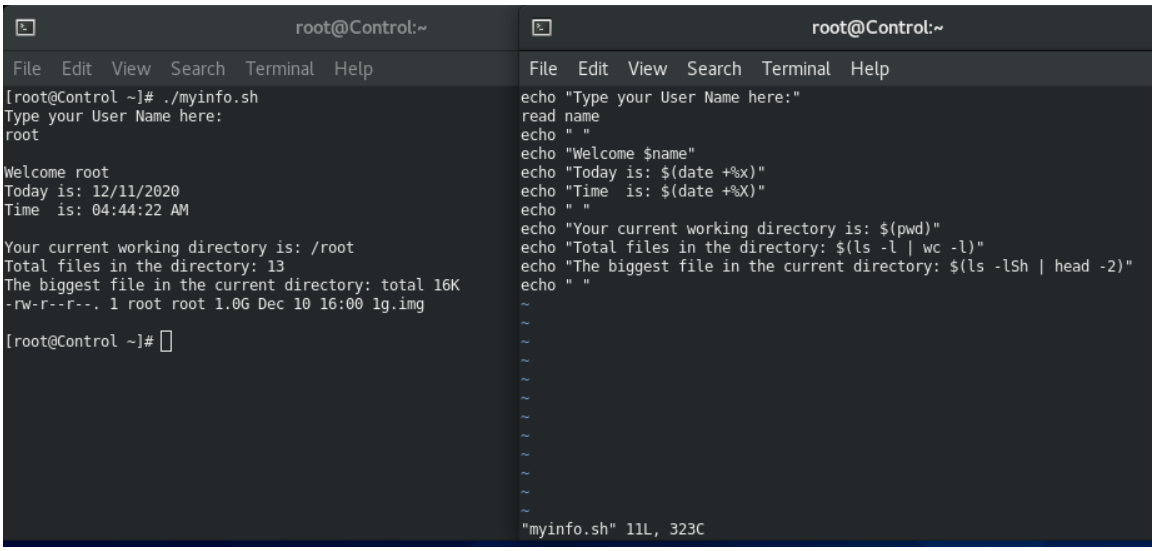
Assignment 0

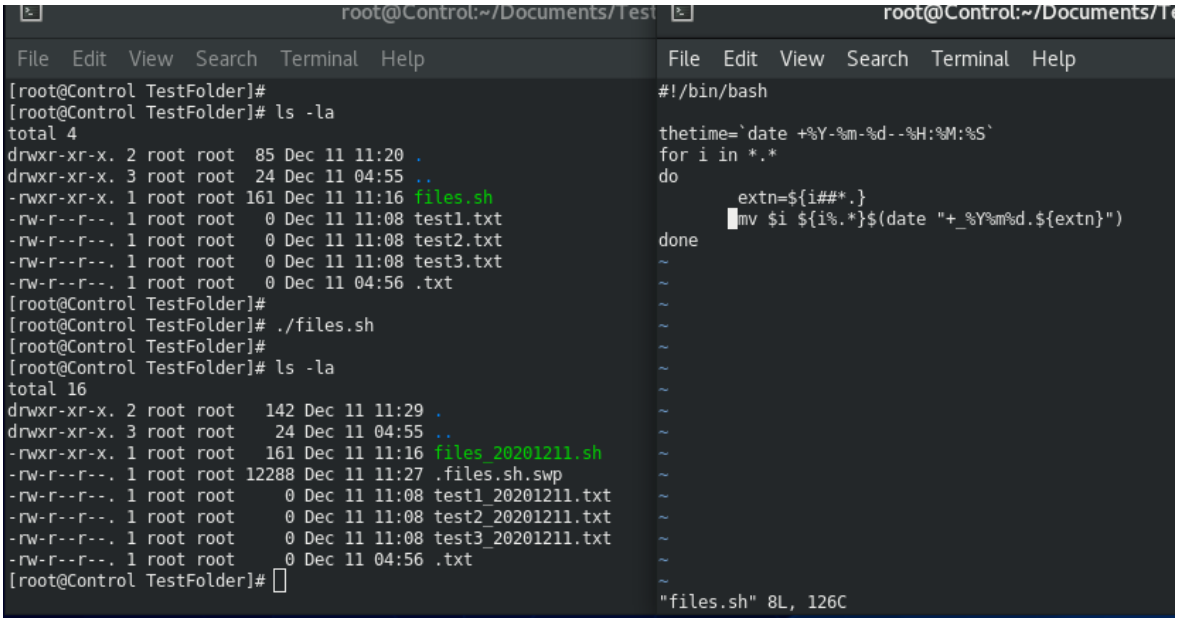
1. **Create a simple shell script to tell the user about their session – they need to know:**

- 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



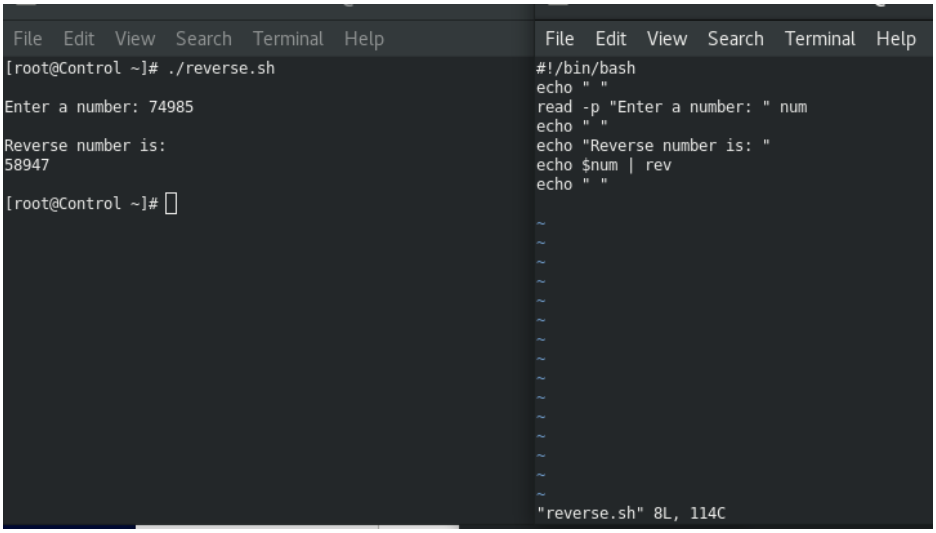
Assignment 1

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 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.



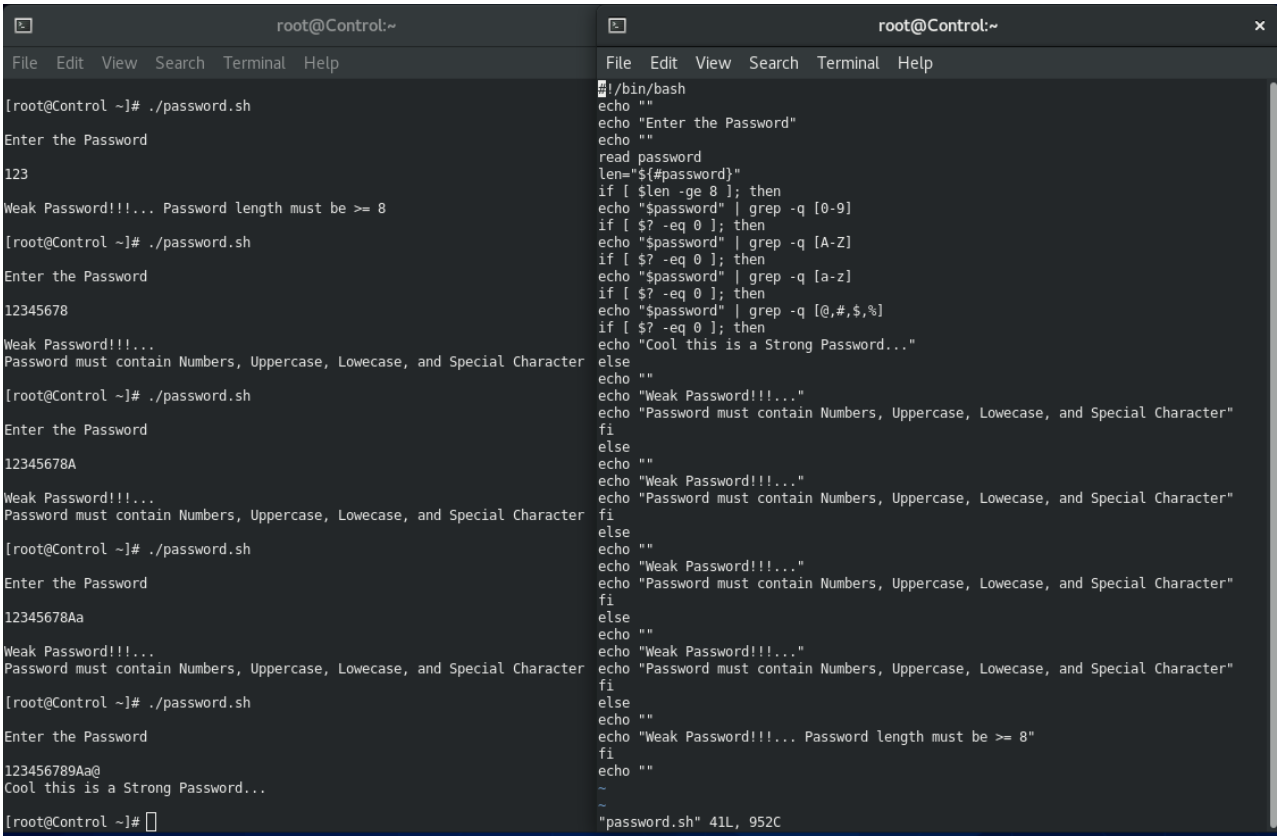
```
File  Edit  View  Search  Terminal  Help
[root@Control ~]# ./reverse.sh

Enter a number: 74985

Reverse number is:
58947

[root@Control ~]#
```

```
File  Edit  View  Search  Terminal  Help
#!/bin/bash
echo " "
read -p "Enter a number: " num
echo " "
echo "Reverse number is: "
echo $num | rev
echo " "
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"reverse.sh" 8L, 114C
```

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@Control:~
File  Edit  View  Search  Terminal  Help
[root@Control ~]# ./password.sh

Enter the Password

123

Weak Password!!!... Password length must be >= 8

[root@Control ~]# ./password.sh

Enter the Password

12345678

Weak Password!!!...
Password must contain Numbers, Uppercase, Lowecase, and Special Character

[root@Control ~]# ./password.sh

Enter the Password

12345678A

Weak Password!!!...
Password must contain Numbers, Uppercase, Lowecase, and Special Character

[root@Control ~]# ./password.sh

Enter the Password

12345678Aa

Weak Password!!!...
Password must contain Numbers, Uppercase, Lowecase, and Special Character

[root@Control ~]# ./password.sh

Enter the Password

123456789Aa@
Cool this is a Strong Password...

[root@Control ~]#
```

```
root@Control:~
File  Edit  View  Search  Terminal  Help
#!/bin/bash
echo ""
echo "Enter the Password"
echo ""
read password
len="${#password}"
if [ $len -ge 8 ]; then
echo "$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 "Cool this is a Strong Password..."
else
echo ""
echo "Weak Password!!!..."
echo "Password must contain Numbers, Uppercase, Lowecase, and Special Character"
fi
else
echo ""
echo "Weak Password!!!..."
echo "Password must contain Numbers, Uppercase, Lowecase, and Special Character"
fi
else
echo ""
echo "Weak Password!!!..."
echo "Password must contain Numbers, Uppercase, Lowecase, and Special Character"
fi
else
echo ""
echo "Weak Password!!!..."
echo "Password must contain Numbers, Uppercase, Lowecase, and Special Character"
fi
else
echo ""
echo "Weak Password!!!... Password length must be >= 8"
fi
echo ""
~
~
"password.sh" 41L, 952C
```