Assignment-4th DAY-8TH

ASSIGNMENT-0

Q1. 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

=>

```
Script →
echo "1. What their username is"
echo $USER
echo "2. What the current date is"
date +%D
echo "3. What their current working directory"
pwd
```

echo "4. How many files they have in that directory "?

ls | wc -l

echo "5. What is the biggest file in that directory "?

Is -S | head -1

Output →

```
Red Hat Enterprise Linux 8 ... X
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                                                                                                Dec 11 19:51 •
                                                                                           root@localhost:~/mydir
File Edit View Search Terminal Help
[root@localhost mydir]# gedit assignmentZero.txt
[root@localhost mydir]# chmod +x assignmentZero.txt
[root@localhost mydir]# ./assignmentZero.txt
1. What their username is
2. What the current date is
12/11/20
What their current working directory
/root/mydir
4. How many files they have in that directory "?
ls | wc -l
echo 5. What is the biggest file in that directory "?
assignmentZero.txt
[root@localhost mydir]#
```

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.

=>

```
#!/bin/bash

DAY=$(date +%F)

cd /root /mydir

for FILE in *.txt

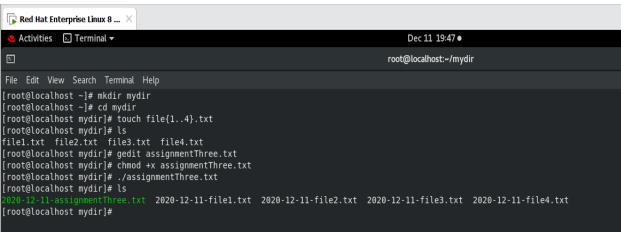
do

mv $FILE ${DAY}-${FILE}

done
```

Output →





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.

=>

echo -n "Enter number: "

read n

store single digit

sd=0

store number in reverse order

```
rev=""

# store original number

on=$n

# use while loop to caclulate the sum of all digits

while [ $n -gt 0 ]

do

sd=$(( $n % 10 )) # get Remainder

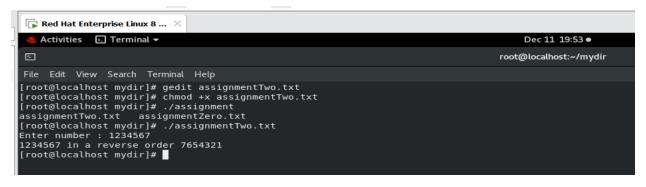
n=$(( $n / 10 )) # get next digit

# store previoues number and current digit in rev

rev=$( echo ${rev}${sd})
```

done

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



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

=>

#!/bin/bash

read string

if [\${#string} -ge 8]; then echo "strong password" ; exit
else echo "Weak password"

fi



• The password should contain numbers and letters

```
#!/bin/bash
```

while true; do

read -r -p "Enter a string: " VAR

if [[\$VAR =~ ^[[:alnum:]]+\$]];then

echo "OK: Contains alphabets and numbers"

else

echo "NOK: Contains special character"

fi

done



• There should be both uppercase and lowercase letters

```
#!/bin/bash
while true; do
  read -r -p "Enter a string: " VAR
  if [[ $VAR =~ ^[a-zA-Z]+$ ]];then
    echo "OK: Contains alphabets Upper and lower case"
  else
    echo "NOK: Contains special character"
  fi
```

done