ASSIGNMENT-0

- Shell script for user about the session details as shown in below image.

```
#!/bin/bash

echo " Username      = $(whoami) "
echo " Current date  = $(date +%D) "
echo " Current time  = $(date +%T) "
echo " working dir.  = $(pwd) "
echo " No.of files   = $(find -type f | wc -l) "
echo " Largest file  = $(du -ah | sort -nr | head -2 | tail -1) "
~
~
```

- The result for the above shell-script is shown in below image.

```
ubuntu@ip-10-192-168-43:~/Letsupgrade$ ./User_info.sh
 Username      = ubuntu
 Current date  = 12/12/20
 Current time  = 13:10:24
 working dir.  = /home/ubuntu/Letsupgrade
 No.of files   = 5
 Largest file  = 124K    ./lxc-containers
ubuntu@ip-10-192-168-43:~/Letsupgrade$
```

ASSIGNMENT-1

- Five .txt files created in "directory" as shown in below images

COMMAND : touch test{1..5}.txt

```
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$ touch test{1..5}.txt
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$ ls
script_rename.sh  test1.txt  test2.txt  test3.txt  test4.txt  test5.txt
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$
```

- In "script_rename.sh" file script is written to rename the test files with current date as extension shown in below image

```
#!/bin/bash

current_date=$(date +%Y-%m-%d)

for file in test{1..5}.txt;

   do
        mv "$file" "$file"_"$current_date"

  done
```

- After executing the above script the results shown in below image

```
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$ ./script_rename.sh
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$ ls
script_rename.sh      test2.txt_2020-12-12  test4.txt_2020-12-12
test1.txt_2020-12-12  test3.txt_2020-12-12  test5.txt_2020-12-12
ubuntu@ip-10-192-168-43:~/Letsupgrade/directory$
```

ASSIGNMENT-2

- Script written in below image to print given number in reverse order.

```
#!/bin/bash
read -p "Enter a number: " number
echo $number | rev
~
```

- The input for above script is 123456789 and the result is 987654321

```
ubuntu@ip-10-192-168-43:~/Letsupgrade$ ./reverse.sh
Enter a number: 123456789
987654321
```

ASSIGNMENT-3

- Shell-script for the password validation is shown in below image.

```
read -p " enter the password : " password

len=${#password}

if [ $len -ge 8 ]; then

      if [[ $password == *[[:alpha:]]* && $password == *[0-9]* ]] ; then

            if [[ $password == *[[:lower:]]* && $password == *[[:upper:]]*  ]] ; then

                  echo " Entered password : $password "
            else
                  echo " Password should contain both upper and lowercase letters "
            fi

       else

           echo "Password should contain both numbers and letters "
       fi

  else
        echo " Password should grater than 8 characters "
 fi
```

- The results for the above script by trying different attempts.

```
ubuntu@ip-10-192-168-43:~/Letsupgrade$ ./pass_validation.sh
 enter the password : pass
 Password should grater than 8 characters
ubuntu@ip-10-192-168-43:~/Letsupgrade$ ./pass_validation.sh
 enter the password : 123456789
Password should contain both numbers and letters
ubuntu@ip-10-192-168-43:~/Letsupgrade$ ./pass_validation.sh
 enter the password : pass1234
 Password should contain both upper and lowercase letters
ubuntu@ip-10-192-168-43:~/Letsupgrade$ ./pass_validation.sh
 enter the password : pAsS1234
 Entered password is correct
ubuntu@ip-10-192-168-43:~/Letsupgrade$
```