Отчет

по лабораторной работе №1 «Управление файлами и каталогами»

по дисциплине «**Администрирование Linux**»

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УНИВЕРСИТЕТ ИТМО

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Ход выполнения работы.

```bash
#!/bin/bash
rm -rf /home/user/*

#1
cd /home/user
mkdir test

#2
cd test
ls -all /etc > list

#3
# ls -al /etc | grep "^d" | wc | awk '{$1=$1;print$1}' >> list
dir_count=$(ls -al /etc | grep "^d" | wc -l)
echo $dir_count >> list

file_count=$(ls -al /etc | wc -l)
file_count_without_hidden=$(ls -l /etc | wc -l)
file_count_hidden=$(($file_count - $file_count_without_hidden - 2))

echo $file_count_hidden >> list

#4
# pwd -> /home/user/test
mkdir links

#5
#ln list ./links/list_hlink
ln /home/user/test/list ./links/list_hlink
```

```bash
#6
ln -s /home/user/test/list ./links/list_slink

#7
echo "=== 7 ==="
echo "list_hlink"
ls -li ./links/list_hlink | cut -d " " -f3

echo "list"
ls -li list | cut -d " " -f3

echo "list_slink"
ls -li ./links/list_slink | cut -d " " -f3

#8
wc -l list | cut -d " " -f1 >> ./links/list_hlink
```

```bash
#8
wc -l list | cut -d " " -f1 >> ./links/list_hlink

#9
echo "=== 9 ==="
if cmp ./links/list_hlink ./links/list_slink
then
        echo "YES"
else
        echo "NO"
fi

#10
mv list list1
```

```
#11
echo "=== 11 ==="
if cmp ./links/list_hlink ./links/list_slink
then
        echo "YES"
else
        echo "NO"
fi

#12
cd /home/user
ln ./test/list1 list_link

#13
find /etc -name "*.conf" > list_conf

#14
#wc=96 without -type d
#wc=86 with -type d
find /etc -name "*.d" -type d > list_d

#15
cat list_conf list_d > list_conf_d

#16
mkdir ./test/.sub

#17
cp list_conf_d ./test/.sub

#18
cp --backup=simple list_conf_d ./test/.sub

#19
echo "=== 19 ==="
ls -R ./test

#20
man man > man.txt

#21
split -b 1024 man.txt "man.txt_split_"

#22
mkdir man.dir

#23
mv man.txt_split_* man.dir

#24
cat ./man.dir/man.txt_split_* > ./man.dir/man.txt
rm ./man.dir/man.txt_split_*

#25
echo "=== 25 ==="
if cmp man.txt ./man.dir/man.txt
then
        echo "YES"
else
        echo "NO"
fi
```

```
#26
echo "LOVE_DEATH_LINUX" >> tmp
cat man.txt >> tmp
cat tmp > man.txt
echo "Do not mount your soul to /dev/null!" >> man.txt
rm tmp

#27
diff -u man.txt ./man.dir/man.txt > man.patch

#28
mv man.patch ./man.dir

#29
patch -R ./man.dir/man.txt < ./man.dir/man.patch
```

```
#30
echo "=== 30 ==="
if cmp man.txt ./man.dir/man.txt
then
        echo "YES"
else
        echo "NO"
fi
```

Результат выполнения скрипта.

```
[root@localhost my_tasks]# bash 1_01.sh
=== 7 ===
list_hlink
2
list
2
list_slink
1
=== 9 ===
YES
=== 11 ===
cmp: ./links/list_slink: No such file or directory
NO
=== 19 ===
./test:
links   list1

./test/links:
list_hlink   list_slink
=== 25 ===
YES
patching file ./man.dir/man.txt
=== 30 ===
YES
```