

Листинг окончательного варианта программы и тесты к ней.

Здесь представлены 2 варианта скрипта, когда к скопированным файлам добавляется префикс(1) или суффикс(2).

### Программа 1

```
#!/bin/bash

#Лабораторная работа № 21. Вариант 1. Бучкин Тимур Аретмович. М80-101Б-22.

if [ $# -ne 0 ]; then
    directorys=$@
else
    directorys='pwd'
fi
savedirname="copiedFiles"
if [ ! -e "$savedirname" ]; then
    'mkdir "$savedirname"'
fi
filechek () {
    for el in $1/*; do
        if [ -d "$el" ]; then
            filechek $el
        elif [ -f "$el" ] && [ ! -w "$el" ]; then
            filename='basename "$el"'
            echo "$el was copied into ./copiedFiles/copied_${filename}"
            'cp "$el" "./copiedFiles/copied_${filename}"'
            'chmod ugo+w "./copiedFiles/copied_${filename}"'
        fi
    done
}
for directory in $directorys; do
    filechek $directory
done
exit 0
```

### Программа 2

```
#!/bin/bash

#Лабораторная работа № 21. Вариант 1. Бучкин Тимур Аретмович. М80-101Б-22.

if [ $# -ne 0 ]; then
    directorys=$@
else
    directorys='pwd'
fi
savedirname="copiedFiles"
if [ ! -e "$savedirname" ]; then
    'mkdir "$savedirname"'
fi
filechek () {
    for el in $1/*; do
        if [ -d "$el" ]; then
            filechek $el
        continue
    done
}
```

```

elif [ -f "$el" ] && [ ! -w "$el" ]; then
fullname='basename "$el"'
fileType=${fullname##*.}
if [ "$fullname" == "$fileType" ]; then
fileType=""
filename=$fullname
else
fileType=".$fileType"
filename='basename $fullname $fileType'
fi
newfullname="${filename}_copied${fileType}"
echo "el is $el, fullname is $fullname, newfullname is $newfullname"
'cp "$el" "./copiedFiles/${newfullname}"'
'chmod ugo+w "./copiedFiles/${newfullname}"'
fi

done
}
for directory in $directorys; do
filechek $directory
done
exit 0

```

## Тесты

```

raison@WIN-4SUT050B1V5:~/Labs/21$ ls
script
raison@WIN-4SUT050B1V5:~/Labs/21$ touch file1{1..7}
raison@WIN-4SUT050B1V5:~/Labs/21$ chmod ugo-w file1{1..4}
raison@WIN-4SUT050B1V5:~/Labs/21$ ls -l
total 4
-r--r--r-- 1 raison raison 0 Feb 18 10:24 file11
-r--r--r-- 1 raison raison 0 Feb 18 10:24 file12
-r--r--r-- 1 raison raison 0 Feb 18 10:24 file13
-r--r--r-- 1 raison raison 0 Feb 18 10:24 file14
-rw-r--r-- 1 raison raison 0 Feb 18 10:24 file15
-rw-r--r-- 1 raison raison 0 Feb 18 10:24 file16
-rw-r--r-- 1 raison raison 0 Feb 18 10:24 file17
-rw-r--r-- 1 raison raison 705 Feb 18 10:23 script
raison@WIN-4SUT050B1V5:~/Labs/21$ mkdir fold
raison@WIN-4SUT050B1V5:~/Labs/21$ touch fold/file2{1..12}
raison@WIN-4SUT050B1V5:~/Labs/21$ chmod ugo-w fold/file2{1..12}
raison@WIN-4SUT050B1V5:~/Labs/21$ ls fold/ -l
total 0
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file21
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file210
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file211
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file212
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file22
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file23
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file24
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file25
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file26
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file27
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file28
-r--r--r-- 1 raison raison 0 Feb 18 10:25 file29
raison@WIN-4SUT050B1V5:~/Labs/21$ mkdir fold/fold2

```

```

raison@WIN-4SUT050B1V5:~/Labs/21$ mkdir fold/fold2/fold3
raison@WIN-4SUT050B1V5:~/Labs/21$ touch fold/fold2/fold3/file3{1..15}
raison@WIN-4SUT050B1V5:~/Labs/21$ chmod ugo-w fold/fold2/fold3/file3{1..9}
raison@WIN-4SUT050B1V5:~/Labs/21$ ls fold/fold2/fold3/ -l
total 0
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file31
-rw-r--r-- 1 raison raison 0 Feb 18 10:26 file310
-rw-r--r-- 1 raison raison 0 Feb 18 10:26 file311
-rw-r--r-- 1 raison raison 0 Feb 18 10:26 file312
-rw-r--r-- 1 raison raison 0 Feb 18 10:26 file313
-rw-r--r-- 1 raison raison 0 Feb 18 10:26 file314
-rw-r--r-- 1 raison raison 0 Feb 18 10:26 file315
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file32
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file33
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file34
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file35
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file36
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file37
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file38
-r--r--r-- 1 raison raison 0 Feb 18 10:26 file39
raison@WIN-4SUT050B1V5:~/Labs/21$ bash script
/home/raison/Labs/21/file11 was copied into ./copiedFiles/copied_file11
/home/raison/Labs/21/file12 was copied into ./copiedFiles/copied_file12
/home/raison/Labs/21/file13 was copied into ./copiedFiles/copied_file13
/home/raison/Labs/21/file14 was copied into ./copiedFiles/copied_file14
/home/raison/Labs/21/fold/file21 was copied into ./copiedFiles/copied_file21
/home/raison/Labs/21/fold/file210 was copied into ./copiedFiles/copied_file210
/home/raison/Labs/21/fold/file211 was copied into ./copiedFiles/copied_file211
/home/raison/Labs/21/fold/file212 was copied into ./copiedFiles/copied_file212
/home/raison/Labs/21/fold/file22 was copied into ./copiedFiles/copied_file22
/home/raison/Labs/21/fold/file23 was copied into ./copiedFiles/copied_file23
/home/raison/Labs/21/fold/file24 was copied into ./copiedFiles/copied_file24
/home/raison/Labs/21/fold/file25 was copied into ./copiedFiles/copied_file25
/home/raison/Labs/21/fold/file26 was copied into ./copiedFiles/copied_file26
/home/raison/Labs/21/fold/file27 was copied into ./copiedFiles/copied_file27
/home/raison/Labs/21/fold/file28 was copied into ./copiedFiles/copied_file28
/home/raison/Labs/21/fold/file29 was copied into ./copiedFiles/copied_file29
/home/raison/Labs/21/fold/fold2/fold3/file31 was copied into ./copiedFiles/copied_file31
/home/raison/Labs/21/fold/fold2/fold3/file32 was copied into ./copiedFiles/copied_file32
/home/raison/Labs/21/fold/fold2/fold3/file33 was copied into ./copiedFiles/copied_file33
/home/raison/Labs/21/fold/fold2/fold3/file34 was copied into ./copiedFiles/copied_file34
/home/raison/Labs/21/fold/fold2/fold3/file35 was copied into ./copiedFiles/copied_file35
/home/raison/Labs/21/fold/fold2/fold3/file36 was copied into ./copiedFiles/copied_file36
/home/raison/Labs/21/fold/fold2/fold3/file37 was copied into ./copiedFiles/copied_file37
/home/raison/Labs/21/fold/fold2/fold3/file38 was copied into ./copiedFiles/copied_file38
/home/raison/Labs/21/fold/fold2/fold3/file39 was copied into ./copiedFiles/copied_file39
raison@WIN-4SUT050B1V5:~/Labs/21$ ls
copiedFiles file11 file12 file13 file14 file15 file16 file17 fold script
raison@WIN-4SUT050B1V5:~/Labs/21$ ls copiedFiles/ -l
total 0
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file11
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file12
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file13
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file14
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file21
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file210
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file211

```

```

-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file212
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file22
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file23
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file24
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file25
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file26
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file27
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file28
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file29
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file31
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file32
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file33
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file34
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file35
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file36
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file37
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file38
-rw-rw-rw- 1 raison raison 0 Feb 18 10:27 copied_file39
raison@WIN-4SUT050B1V5:~/Labs/21$ rm -rf copiedFiles/
raison@WIN-4SUT050B1V5:~/Labs/21$ ls
file11 file12 file13 file14 file15 file16 file17 fold script
raison@WIN-4SUT050B1V5:~/Labs/21$ bash script fold/fold2/fold3
fold/fold2/fold3/file31 was copied into ./copiedFiles/copied_file31
fold/fold2/fold3/file32 was copied into ./copiedFiles/copied_file32
fold/fold2/fold3/file33 was copied into ./copiedFiles/copied_file33
fold/fold2/fold3/file34 was copied into ./copiedFiles/copied_file34
fold/fold2/fold3/file35 was copied into ./copiedFiles/copied_file35
fold/fold2/fold3/file36 was copied into ./copiedFiles/copied_file36
fold/fold2/fold3/file37 was copied into ./copiedFiles/copied_file37
fold/fold2/fold3/file38 was copied into ./copiedFiles/copied_file38
fold/fold2/fold3/file39 was copied into ./copiedFiles/copied_file39
raison@WIN-4SUT050B1V5:~/Labs/21$ ls copiedFiles/ -l
total 0
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file31
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file32
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file33
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file34
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file35
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file36
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file37
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file38
-rw-rw-rw- 1 raison raison 0 Feb 18 10:28 copied_file39

```

Второй вариант скрипта, где добавляется суффикс:

```

raison@WIN-4SUT050B1V5:~/Labs/21$ rm -rf copiedFiles/
raison@WIN-4SUT050B1V5:~/Labs/21$ ls
file11 file12 file13 file14 file15 file16 file17 fold script
raison@WIN-4SUT050B1V5:~/Labs/21$ bash script
el is /home/raison/Labs/21/file11, fullname is file11, newfullname is file11_copied
el is /home/raison/Labs/21/file12, fullname is file12, newfullname is file12_copied
el is /home/raison/Labs/21/file13, fullname is file13, newfullname is file13_copied
el is /home/raison/Labs/21/file14, fullname is file14, newfullname is file14_copied
el is /home/raison/Labs/21/fold/file21, fullname is file21, newfullname is file21_copied
el is /home/raison/Labs/21/fold/file210, fullname is file210, newfullname is file210_copied
el is /home/raison/Labs/21/fold/file211, fullname is file211, newfullname is file211_copied
el is /home/raison/Labs/21/fold/file212, fullname is file212, newfullname is file212_copied
el is /home/raison/Labs/21/fold/file22, fullname is file22, newfullname is file22_copied

```

```

el is /home/raison/Labs/21/fold/file23, fullname is file23, newfullname is file23_copied
el is /home/raison/Labs/21/fold/file24, fullname is file24, newfullname is file24_copied
el is /home/raison/Labs/21/fold/file25, fullname is file25, newfullname is file25_copied
el is /home/raison/Labs/21/fold/file26, fullname is file26, newfullname is file26_copied
el is /home/raison/Labs/21/fold/file27, fullname is file27, newfullname is file27_copied
el is /home/raison/Labs/21/fold/file28, fullname is file28, newfullname is file28_copied
el is /home/raison/Labs/21/fold/file29, fullname is file29, newfullname is file29_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file31, fullname is file31, newfullname is file31_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file32, fullname is file32, newfullname is file32_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file33, fullname is file33, newfullname is file33_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file34, fullname is file34, newfullname is file34_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file35, fullname is file35, newfullname is file35_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file36, fullname is file36, newfullname is file36_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file37, fullname is file37, newfullname is file37_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file38, fullname is file38, newfullname is file38_copied
el is /home/raison/Labs/21/fold/fold2/fold3/file39, fullname is file39, newfullname is file39_copied
raison@WIN-4SUTO50B1V5:~/Labs/21$ touch FILE{1..5}.txt
raison@WIN-4SUTO50B1V5:~/Labs/21$ chmod ugo-w FILE{1..5}.txt
raison@WIN-4SUTO50B1V5:~/Labs/21$ rm -rf copiedFiles/
raison@WIN-4SUTO50B1V5:~/Labs/21$ rm -fr f*
raison@WIN-4SUTO50B1V5:~/Labs/21$ ls
FILE1.txt FILE2.txt FILE3.txt FILE4.txt FILE5.txt script
raison@WIN-4SUTO50B1V5:~/Labs/21$ bash script
el is /home/raison/Labs/21/FILE1.txt, fullname is FILE1.txt, newfullname is FILE1_copied.txt
el is /home/raison/Labs/21/FILE2.txt, fullname is FILE2.txt, newfullname is FILE2_copied.txt
el is /home/raison/Labs/21/FILE3.txt, fullname is FILE3.txt, newfullname is FILE3_copied.txt
el is /home/raison/Labs/21/FILE4.txt, fullname is FILE4.txt, newfullname is FILE4_copied.txt
el is /home/raison/Labs/21/FILE5.txt, fullname is FILE5.txt, newfullname is FILE5_copied.txt
raison@WIN-4SUTO50B1V5:~/Labs/21$ ls copiedFiles/ -l
total 0
-rw-rw-rw- 1 raison raison 0 Feb 18 10:41 FILE1_copied.txt
-rw-rw-rw- 1 raison raison 0 Feb 18 10:41 FILE2_copied.txt
-rw-rw-rw- 1 raison raison 0 Feb 18 10:41 FILE3_copied.txt
-rw-rw-rw- 1 raison raison 0 Feb 18 10:41 FILE4_copied.txt
-rw-rw-rw- 1 raison raison 0 Feb 18 10:41 FILE5_copied.txt

```