

Лабораторная работа №12

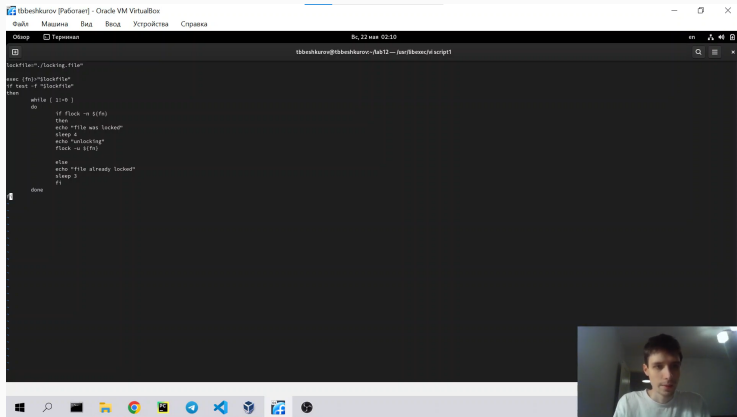
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Программирование в командном процессоре ОС UNIX. Расширенное программирование

Изучить основы программирования в оболочке ОС UNIX.
Научиться писать более сложные командные файлы с использованием логических управляющих конструкций и циклов.

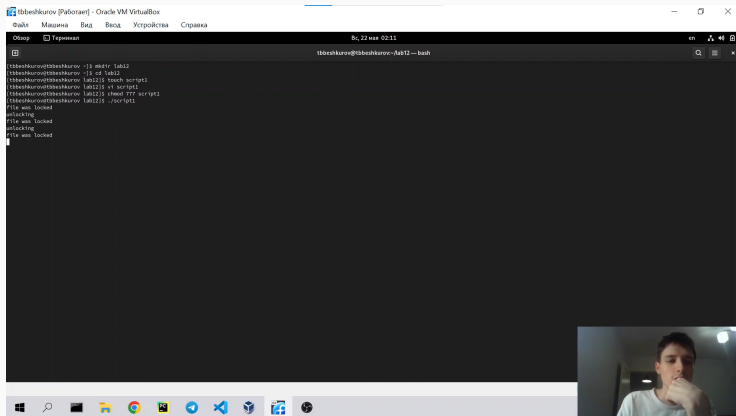
1. Скрипт 1 (рис. 1)



```
lockfile="/locking.file"
exec (fn)="lockfile"
if test -f "$lockfile"
then
    while [ 1=1 ]
    do
        if flock -n $[fn]
        then
            echo "file was locked"
            sleep 4
            echo "unlocking"
            flock -u $[fn]
        else
            echo "file already locked"
            sleep 3
        fi
    done
fi
```

Рис. 1: Скрипт 1

Запуск (рис. 2)



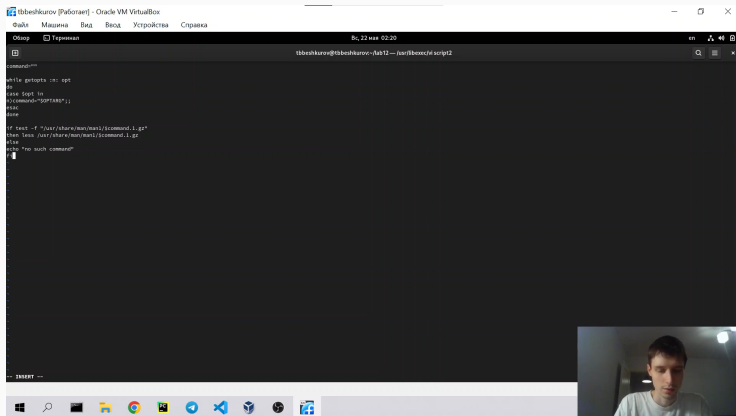
The screenshot shows a Windows 10 desktop with a taskbar at the bottom containing icons for Windows, Search, File Explorer, Google Chrome, and several other applications. A window titled "tbbeshkurov [Работаю] - Oracle VM VirtualBox" is open, displaying a terminal window. The terminal window has a title bar that says "tbbeshkurov@tbbeshkurov-lab12 ~" and shows the following commands and output:

```
tbbeshkurov@tbbeshkurov ~$ mkdir lab12
tbbeshkurov@tbbeshkurov ~$ cd lab12
tbbeshkurov@tbbeshkurov lab12$ touch script1
tbbeshkurov@tbbeshkurov lab12$ vi script1
tbbeshkurov@tbbeshkurov lab12$ chmod 777 script1
tbbeshkurov@tbbeshkurov lab12$ ./script1
File was locked
unlocking
File was locked
unlocking
File was locked
```

In the bottom right corner of the VirtualBox window, there is a small video feed showing a person's face.

Рис. 2: Скрипт 1 запуск

2. Скрипт 2 (рис. 3)



```
tbreshkuov [Работаю] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка

Обзор  Терминал
Вс, 22 мая 02:20
en  +  -  [иконки]

tbreshkuov@tbreshkuov-A012 ~ /usr/libexec/s/script2

command'''
while getopts :c: opt
do
case $opt in
c) command="$OPTARG";;
*)
echo
if test -f "/usr/share/man/man1/scommand.1.gz"
then less /usr/share/man/man1/scommand.1.gz
else
echo "no such command"
fi
fi
done
```

Рис. 3: Скрипт 2

Запуск (рис. 4)

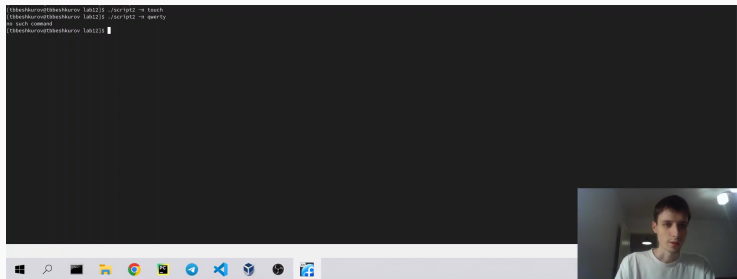


Рис. 4: Скрипт 2 запуск

3. Скрипт 3 (рис. 5)

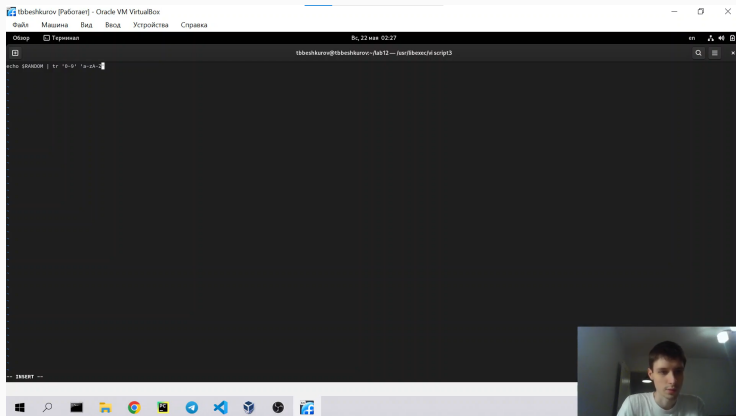
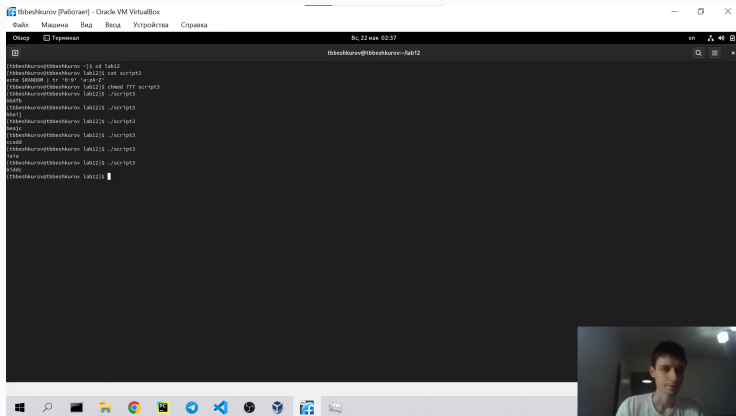


Рис. 5: Скрипт 3

Запуск (рис. 6)



The screenshot shows a Windows 10 desktop. The main window is 'tbeshkurov [Работаю] - Oracle VM VirtualBox', which is displaying a terminal window titled 'tbeshkurov@tbeshkurov-lab12'. The terminal shows a series of commands and their outputs, including directory changes, file listings, and script executions. A video call inset in the bottom right corner shows a man with dark hair and a light beard, wearing a white shirt, looking at the camera. The Windows taskbar at the bottom contains icons for the Start menu, Search, File Explorer, Google Chrome, and several other applications.

```
tbeshkurov@tbeshkurov ~$ cd lab12
tbeshkurov@tbeshkurov lab12$ cat script3
echo $RANDOM | tr -dc 'a-z' | fold -w 64 | xargs -n 1 shuf
tbeshkurov@tbeshkurov lab12$ ./script3
./script3
tbeshkurov@tbeshkurov lab12$ ./script3
./script3
tbeshkurov@tbeshkurov lab12$ ./script3
./script3
tbeshkurov@tbeshkurov lab12$ ./script3
./script3
tbeshkurov@tbeshkurov lab12$ ./script3
./script3
tbeshkurov@tbeshkurov lab12$
```

Рис. 6: Скрипт 3 запуск

Научились писать более сложные командные файлы с использованием логических управляющих конструкций и циклов.