

Лабораторная работа №11

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Программирование в командном процессоре ОС UNIX. Ветвления и циклы

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

Выполнение лабораторной работы

1. Скрипт 1 (рис. 1)

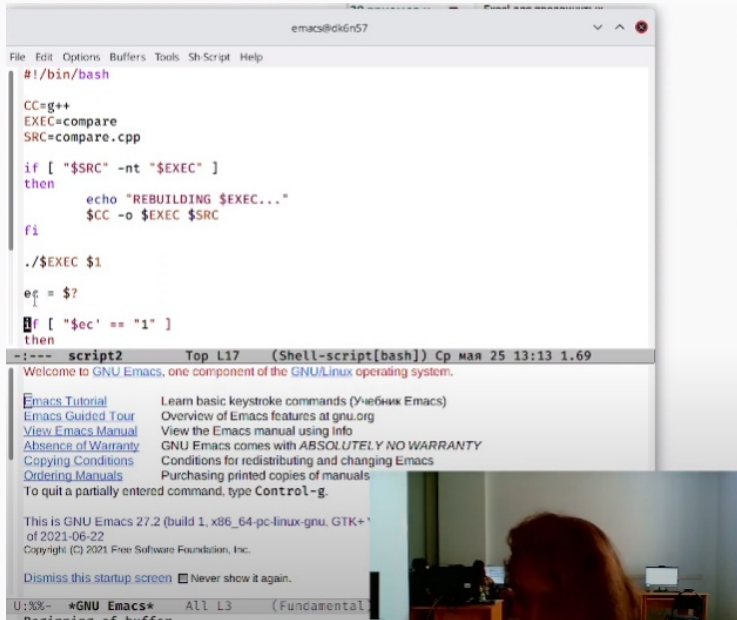
The image shows a terminal window with a shell script and a video player interface. The terminal window has a title bar with "Открыть", "script1", and "Сохранить". The script content is as follows:

```
1#!/bin/bash
2
3while getopts :i:o:p:cn opt
4do
5    case "$opt" in
6        i)input=${OPTARG};;
7        o)output=${OPTARG};;
8        p)mask=${OPTARG};;
9        c)c=true;;
10       n)n=true;;
11    esac
12done
13
14if [ $c ]
15then
16    if [ $n ]
17    then
18        grep -n -i $mask $input > $output
19        exit 0
20    else
21        grep -i $mask $input > $output
22        exit 0
23    fi
24else
25    grep -n $mask $input > $output
26    exit 0
27fi
```

The video player interface on the right shows a list of videos. The first video is "20 приемов и трюков MS Excel для продвинутых" by Еленис Дмитрий, with 1,6 млн просмотров. Other videos include "Nechiphu Tunnel Excavated: Latest update | Drishti IAS...", " Skyrim - Music & Ambience", "Автоматизированное тестирование с нуля / Полн...", "peace.", and "Раздельный учёт контрактов по ГОЗ в 1С".

At the bottom of the terminal window, there is a status bar with "Текст", "Шрифт: табуляция: 8", and "Стр 27, Стлб 3". Below the terminal window, there is a video player interface showing a video of a person speaking.

2. Скрипт 2 (рис. 2)



```
#!/bin/bash
CC=g++
EXEC=compare
SRC=compare.cpp

if [ "$SRC" -nt "$EXEC" ]
then
    echo "REBUILDING $EXEC..."
    $CC -o $EXEC $SRC
fi

./$EXEC $1

eg = $?

if [ "$ec" == "1" ]
then
    :--- script2      Top L17      (Shell-script[bash]) Cp мая 25 13:13 1.69
    Welcome to GNU Emacs, one component of the GNU/Linux operating system.

    Emacs Tutorial      Learn basic keystroke commands (Учебник Emacs)
    Emacs Guided Tour   Overview of Emacs features at gnu.org
    View Emacs Manual    View the Emacs manual using Info
    Absence of Warranty  GNU Emacs comes with ABSOLUTELY NO WARRANTY
    Copying Conditions   Conditions for redistributing and changing Emacs
    Ordering Manuals     Purchasing printed copies of manuals
    To quit a partially entered command, type Control-g.

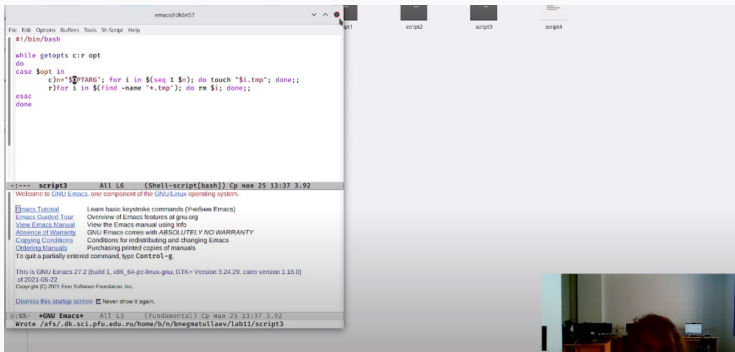
    This is GNU Emacs 27.2 (build 1, x86_64-pc-linux-gnu, GTK+ 3.22.10)
    of 2021-06-22
    Copyright (C) 2021 Free Software Foundation, Inc.

    Dismiss this startup screen [ ] Never show it again.

    U:%%- *GNU Emacs* All L3 (Fundamental)
    Beginning of buffer
```

Figure 2: Скрипт 2

3. Скрипт 3 (рис. 3)



```
emacsd@kln7
File Edit Options Buffers Tools Shell-Script Help

#!/bin/bash

while getopts c:r opt
do
case $opt in
c)n="$OPTARG"; for i in $(seq 1 $n); do touch "$i.tmp"; done;;
r)for i in $(find -name "*.tmp"); do rm $i; done;;
esac
done

----- script3 All 16 (Shell-script[bash]) Cp wa* 25 13:37 3,92
Welcome to GNU Emacs, one component of the GNU/Linux operating system.

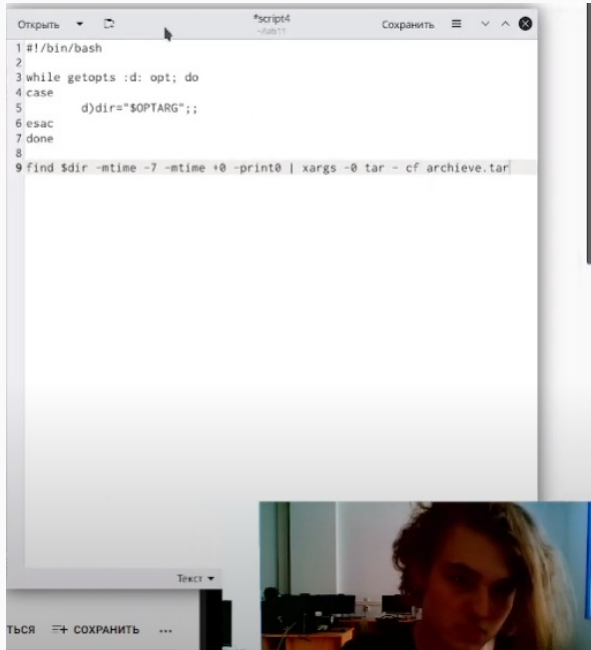
Emacs Tutorial Learn basic keyboard commands (⌘-help Emacs)
Emacs Guided Tour Overview of Emacs features at gnu.org
View Emacs Manual View the Emacs manual using info
Absence of Warranty GNU Emacs comes with ABSOLUTELY NO WARRANTY
Copying Conditions Conditions for redistributing and changing Emacs
Ordering Manuals Purchasing printed copies of manuals
To quit a partially entered command, type Control-g.

This is GNU Emacs 27.2 (build 1, x86_64-pc-linux-gnu, GTK+ Version 3.24.29, cairo version 1.16.0)
of 2021-06-22
Copyright (C) 2001 Free Software Foundation, Inc.
Dismiss this startup screen. ☐ Never show it again.

U:KX~ GNU Emacs* All L3 (Fundamental) Cp wa* 25 13:37 3,92
Wrote /afs/.dk.sci.pfu.edu.ru/home/b/n/bmegmatullaev/lab11/script3
```

Figure 3: Скрипт 1

4. Скрипт 4 (рис. 4)



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