Презентация Лабораторной работы №2

Лабораторная работа 12

Новосельцев.Д.С. НФИбд-02-20

Цель работы: изучить основы программирования в оболочке ОС UNIX, научиться писать более сложные командные файлы с использованием логических управляющих конструкций и циклов.

Ход работы:

File Edit Options Buffers Tools Text Help

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Save Undo

I live in a house near the mountains.
I have two brothers and one sister, and I was born last.
My father teaches mathematics, and my mother is a nurse at a big hospital.

U:**- **lab12.txt** All L3 (Text)

Welcome to GNU Emacs, one component of the GNU/Linux operating system.

Emacs Tutorial	Learn basic keystroke commands
Emacs Guided Tour	Overview of Emacs features at gnu.org
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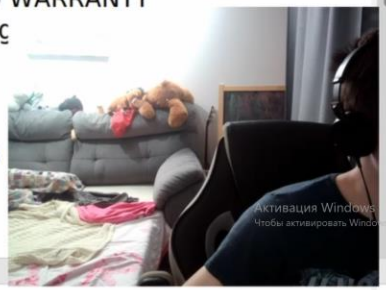
To quit a partially entered command, type `Control-g`.

This is GNU Emacs 26.3 (build 2, x86_64-pc-linux-gnu, GTK+ Version
of 2020-03-26, modified by Debian
Copyright (C) 2019 Free Software Foundation, Inc.

U:%%- ***GNU Emacs*** All L3 (Fundamental)



Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".

```
danila@dsnovoseljcev-VirtualBox:~/.ssh$ cd
danila@dsnovoseljcev-VirtualBox:~$ cd lab12
bash: cd: lab12: No such file or directory
danila@dsnovoseljcev-VirtualBox:~$ emacs lab12.sh
danila@dsnovoseljcev-VirtualBox:~$ bash lab12.sh -ilab12.txt -olab121.txt -pice
danila@dsnovoseljcev-VirtualBox:~$ emacs lab12.sh
danila@dsnovoseljcev-VirtualBox:~$ emacs lab12.txt
danila@dsnovoseljcev-VirtualBox:~$ bash lab12.sh -ilab12.txt -olab121.txt -pis
I have two brothers and one sister, and I was born last.
My father teaches mathematics, and my mother is a nurse at a big hospital.
danila@dsnovoseljcev-VirtualBox:~$ bash lab12.sh -ilab12.txt -olab121.txt -pis -n
I have two brothers and one sister, and I was born last.
My father teaches mathematics, and my mother is a nurse at a big hospital.
danila@dsnovoseljcev-VirtualBox:~$ bash lab12.sh -ilab12.txt -olab121.txt -pis -C
I have two brothers and one sister, and I was born last.
My father teaches mathematics, and my mother is a nurse at a big hospital.
danila@dsnovoseljcev-VirtualBox:~$ bash lab12.sh -ilab12.txt -olab121.txt -piS -c
lab12.sh: illegal option -- c
Illegaloption ?
danila@dsnovoseljcev-VirtualBox:~$ bash lab12.sh -ilab12.txt -olab121.txt -piS -C
I have two brothers and one sister, and I was born last.
My father teaches mathematics, and my mother is a nurse at a big hospital.
danila@dsnovoseljcev-VirtualBox:~$
```

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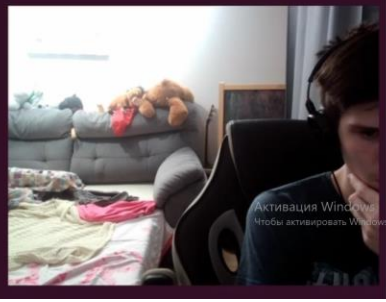

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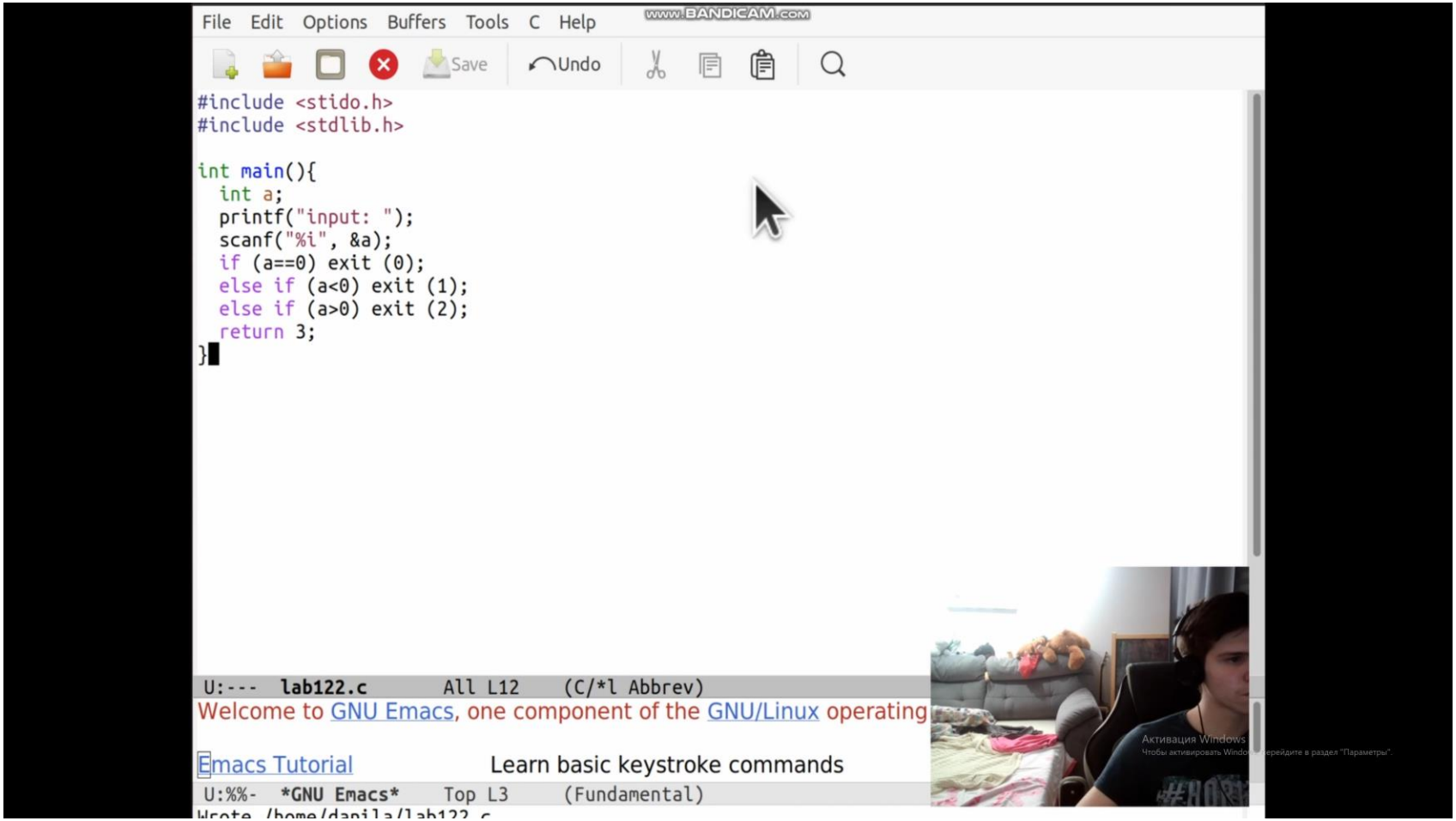
File Edit Options Buffers Tools C Help
www.BANDICAM.com
Save
Undo
#include <stido.h>
#include <stdlib.h>
int main(){
int a;
printf("input: ");
scanf("%i", &a);
if (a==0) exit (0);
else if (a<0) exit (1);
else if (a>0) exit (2);
return 3;
}
U:--- lab122.c All L12 (C/*l Abbrev)
Welcome to GNU Emacs, one component of the GNU/Linux operating
Emacs Tutorial Learn basic keystroke commands
U:%%- *GNU Emacs* Top L3 (Fundamental)
Wrote /home/danila/lab122.c
Активация Windows

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File Edit Options Buffers Tools Sh-Script Help

Save Undo

```
#!/bin/bash
gcc -o cprog lab122.c
./cprog
case $? in
    0) echo 'input number is equal to 0';;
    1) echo 'input number is smaller than 0';;
    2) echo 'input number is bigger than 0';;
esac
```

-:--- **lab123.sh** All L2 (Shell-script[bash])

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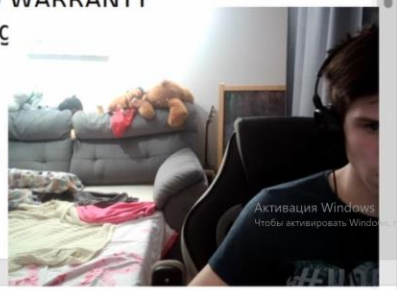
U:%%- ***GNU Emacs*** All L3 (Fundamental)

Wrote /home/danila/lab123.sh



Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".

```
danila@dsnovoseljcev-VirtualBox:~$ bash lab123.sh
input: 13
input number is bigger than 0
danila@dsnovoseljcev-VirtualBox:~$ bash lab123.sh
input: -45
input number is smaller than 0
danila@dsnovoseljcev-VirtualBox:~$
```

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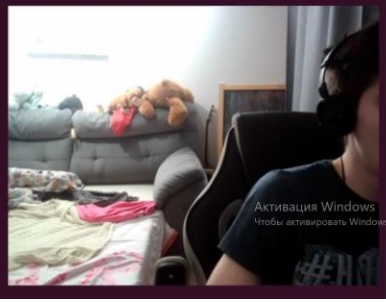
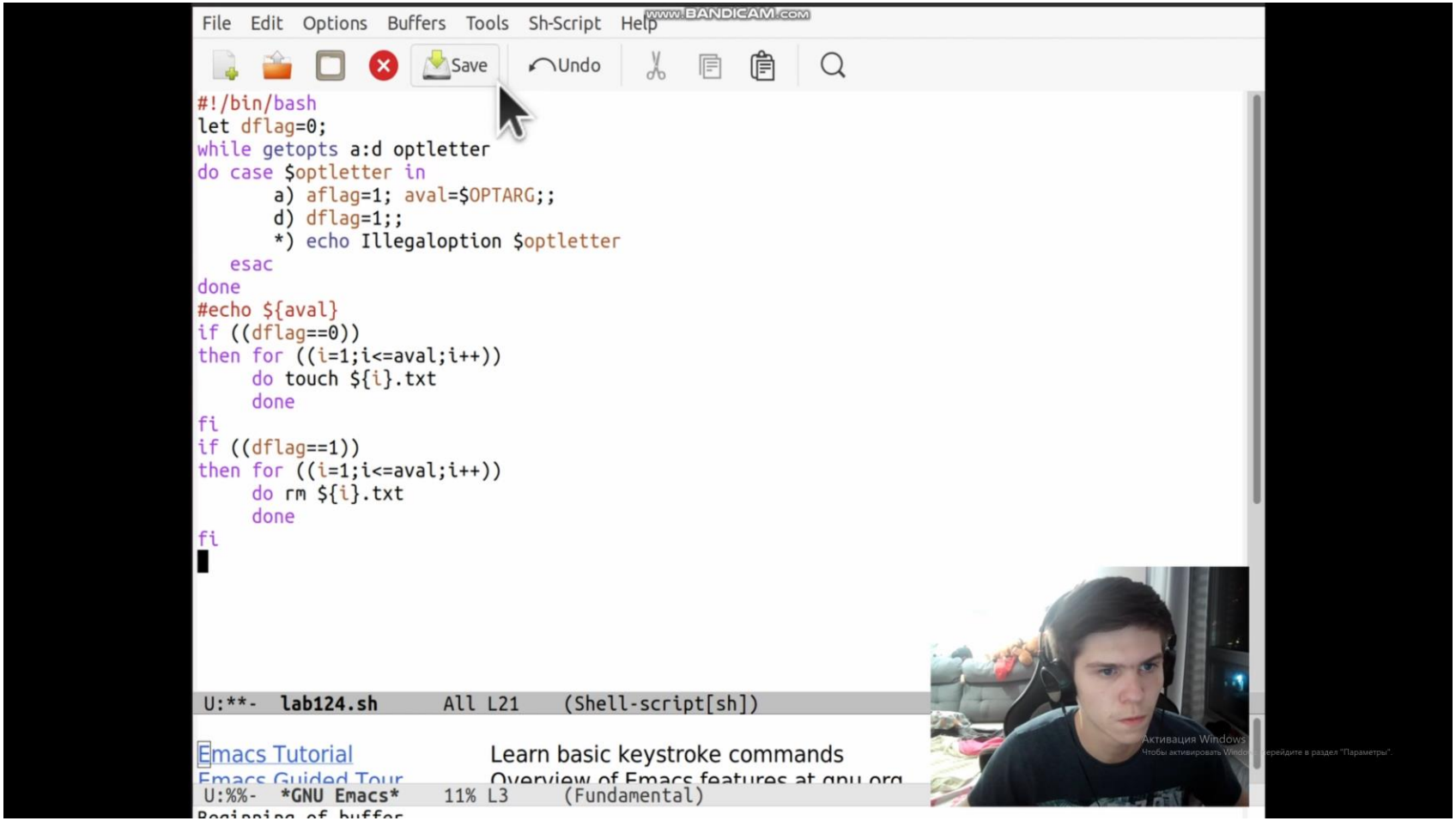


Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".


File Edit Options Buffers Tools Sh-Script Help
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Save
Undo
#!/bin/bash
let dflag=0;
while getopts a:d optletter
do case $optletter in
a) aflag=1; aval=$OPTARG;;
d) dflag=1;;
*) echo Illegaloption $optletter
esac
done
#echo ${aval}
if ((dflag==0))
then for ((i=1;i<=aval;i++))
do touch ${i}.txt
done
fi
if ((dflag==1))
then for ((i=1;i<=aval;i++))
do rm ${i}.txt
done
fi
U:**- lab124.sh All L21 (Shell-script[sh])
Emacs Tutorial Learn basic keystroke commands
Emacs Guided Tour Overview of Emacs features at gnu.org
U:%%- *GNU Emacs* 11% L3 (Fundamental)
Beginning of buffer
Активация Windows

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```
-rw-rw-r-- 1 danila danila   189 окт 25 22:39  lab122.c
-rw-rw-r-- 1 danila danila   189 окт 25 22:52  lab122.c~
-rw-rw-r-- 1 danila danila     0 окт 25 22:53 '#lab123.c#'
-rw-rw-r-- 1 danila danila   194 окт 25 22:57  lab123.sh
-rw-rw-r-- 1 danila danila   193 окт 25 22:56  lab123.sh~
-rw-rw-r-- 1 danila danila   355 окт 25 23:17  lab124.sh
-rwxrwxr-x 1 danila danila   823 окт 25 22:42  lab12.sh
-rwxrwxr-x 1 danila danila   806 окт 25 11:43  lab12.sh~
-rwxrwxr-x 1 danila danila   170 окт 25 22:46  lab12.txt
-rwxrwxr-x 1 danila danila     0 окт 25 11:43  lab12.txt~
-rw-rw-r-- 1 danila danila   222 окт 25 11:14  Lab12.txt
-rwxrwxr-x 1 danila danila    44 окт 25 12:02  lab131.sh
-rwxrwxr-x 1 danila danila    43 окт 25 12:01  lab131.sh~
-rwxrwxr-x 1 danila danila   218 окт 25 12:11  lab132.sh
-rwxrwxr-x 1 danila danila   218 окт 25 12:10  lab132.sh~
-rwxrwxr-x 1 danila danila   205 окт 25 11:54  lab13.sh
-rwxrwxr-x 1 danila danila     0 окт 25 11:49  lab13.sh~
-rw-rw-r-- 1 danila danila   245 окт 25 10:42  lab9.txt~
-rw-rw-r-- 1 danila danila     0 окт 25 11:54  lockfile
-rw-rw-r-- 1 danila danila   269 окт 25 18:08  Makefile
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Music
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Pictures
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Public
-rwxrwxr-x 1 danila danila    42 окт 24 19:24  script2.sh
-rwxrwxr-x 1 danila danila    41 окт 24 19:18  script2.sh~
-rwxrwxr-x 1 danila danila   245 окт 24 19:32  script3.sh
-rwxrwxr-x 1 danila danila   239 окт 24 19:31  script3.sh~
-rwxrwxr-x 1 danila danila   156 окт 24 19:35  script4.sh
-rwxrwxr-x 1 danila danila     0 окт 24 19:32  script4.sh~
-rwxrwxr-x 1 danila danila    91 окт 24 19:15  script.sh
-rwxrwxr-x 1 danila danila     0 окт 24 19:09  script.sh~
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Templates
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Videos
drwxrwxr-x 3 danila danila  4096 окт 25 17:49  work
danila@dsnovoseljcev-VirtualBox:~$
```

Активация Windows
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File Edit Options Buffers Tools Sh-Script Help

Save Undo

```
#!/bin/bash
tar -cf 12.tar $@
tar -cf 12l.tar
find $@ -mtime -7 -exec tar -rf 9l.tar '{}' ';'
```

U:--- **lab125.sh** All L5 (Shell-script[sh])

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To quit a partially entered command, type `Control-g`.

This is GNU Emacs 26.3 (build 2, x86_64-pc-linux-gnu, GTK+ Version

U:%%- ***GNU Emacs*** Top L3 (Fundamental)

Wrote /home/danila/lab125.sh

Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".

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```
-rwxrwxr-x 1 danila danila     0 окт 25 11:49  lab13.sh~
-rw-rw-r-- 1 danila danila   245 окт 25 10:42  lab9.txt~
-rw-rw-r-- 1 danila danila     0 окт 25 11:54  lockfile
-rw-rw-r-- 1 danila danila   269 окт 25 18:08  Makefile
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Music
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Pictures
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Public
-rwxrwxr-x 1 danila danila    42 окт 24 19:24  script2.sh
-rwxrwxr-x 1 danila danila    41 окт 24 19:18  script2.sh~
-rwxrwxr-x 1 danila danila   245 окт 24 19:32  script3.sh
-rwxrwxr-x 1 danila danila   239 окт 24 19:31  script3.sh~
-rwxrwxr-x 1 danila danila   156 окт 24 19:35  script4.sh
-rwxrwxr-x 1 danila danila     0 окт 24 19:32  script4.sh~
-rwxrwxr-x 1 danila danila    91 окт 24 19:15  script.sh
-rwxrwxr-x 1 danila danila     0 окт 24 19:09  script.sh~
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Templates
drwxr-xr-x 2 danila danila  4096 окт 24 18:55  Videos
drwxrwxr-x 3 danila danila  4096 окт 25 17:49  work
danila@dsnovoseljcev-VirtualBox:~$ emacs lab125.sh
danila@dsnovoseljcev-VirtualBox:~$ bash lab125.sh /lab12
tar: Removing leading `/' from member names
tar: /lab12: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
tar: Cowardly refusing to create an empty archive
Try 'tar --help' or 'tar --usage' for more information.
find: ‘/lab12’: No such file or directory
danila@dsnovoseljcev-VirtualBox:~$ ls
 12.tar     Documents     lab123.sh~   Lab12.txt    lab9.txt~    scri
 1.txt      Downloads     lab124.sh    lab131.sh    lockfile     scri
 2.txt      lab121.txt    lab125.sh    lab131.sh~   Makefile     scri
 3.txt      lab122.c      lab12.sh     lab132.sh    Music        scri
 4.txt      lab122.c~     lab12.sh~    lab132.sh~   Pictures     scri
 cprog     '#lab123.c#'   lab12.txt    lab13.sh     Public       scri
 Desktop    lab123.sh     lab12.txt~   lab13.sh~    script2.sh   scri
danila@dsnovoseljcev-VirtualBox:~$
```

Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".

Вывод: изучил основы программирования в оболочке ОС UNIX, научился писать более сложные командные файлы с использованием логических управляющих конструкций и циклов.