

Лабораторная работа №9

Назирова М.Т.

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Российский университет дружбы народов, Москва, Россия

Информация

- Назирова Малика Темржоновна
- студентка группы НКабд-04-22
- Факультет физико-математических и естественных наук
- Российский университет дружбы народов
- 1032225197@pfur.ru
- https://github.com/sweetliiikk/study_2022-2023_os-intro.git

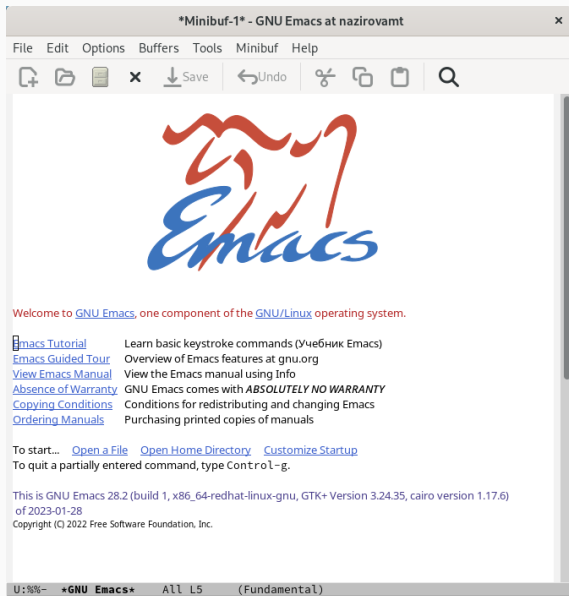


Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором Emacs.

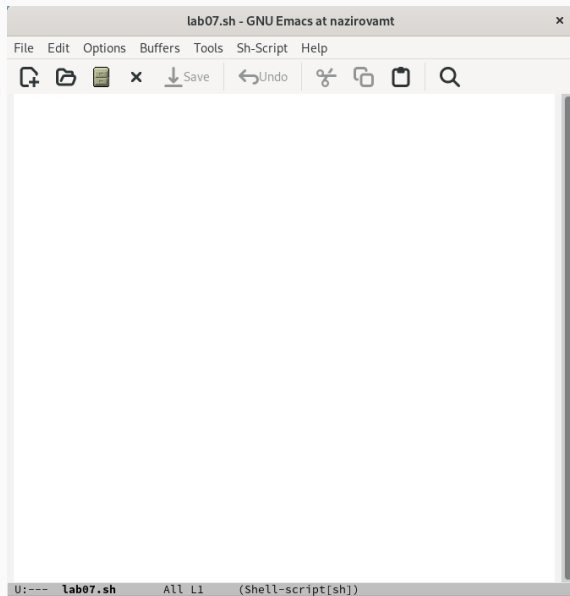
Выполнение лабораторной работы

```
[nazirovamt@nazirovamt ~]$ emacs &  
[3] 3646
```

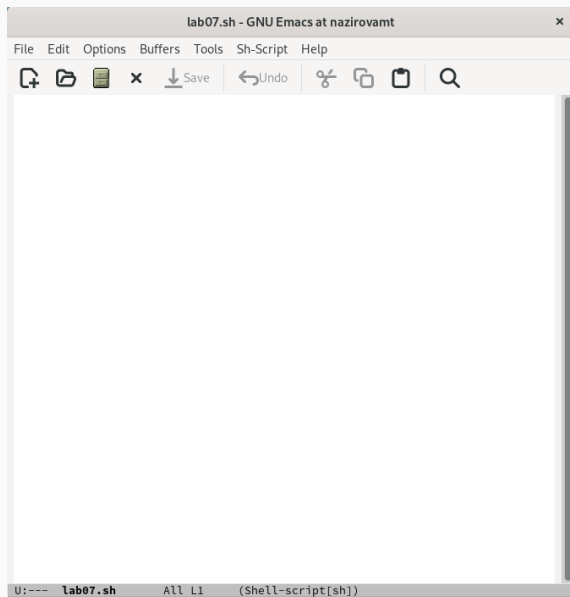
Создать файл lab07.sh с помощью комбинации Ctrl-x Ctrl-f (C-x C-f).



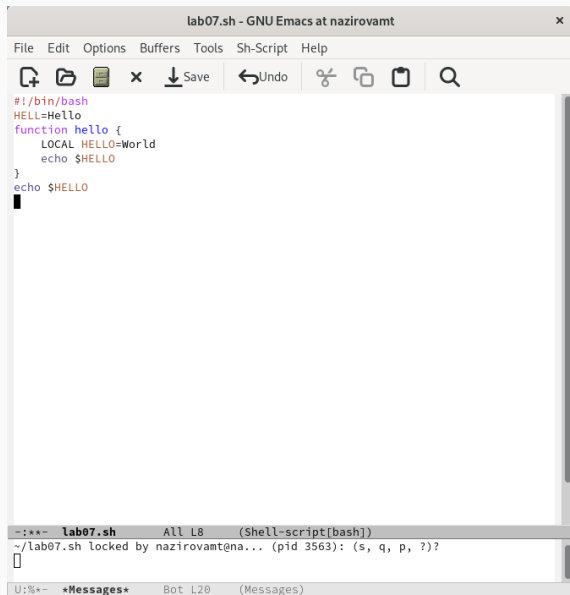
Наберите текст.



Сохранение файла с помощью комбинации Ctrl-x Ctrl-s (C-x C-s).



Вырезать одной командой целую строку (C-k).



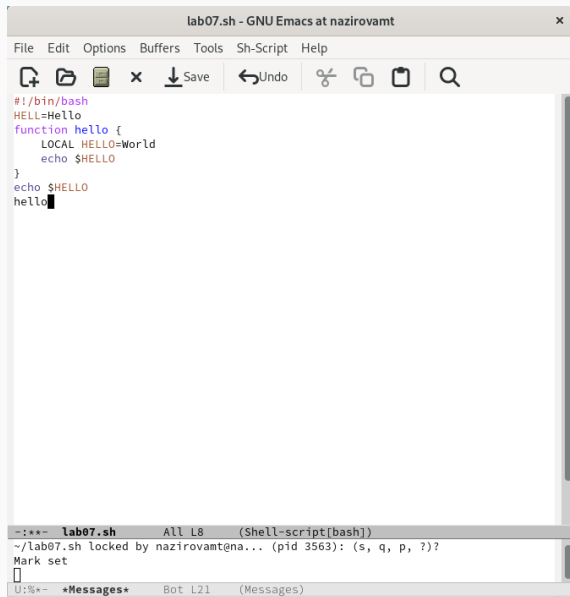
The screenshot shows the GNU Emacs editor interface. The title bar reads "lab07.sh - GNU Emacs at nazirovamt". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for opening, saving, undo, redo, and search. The main text area displays a shell script:

```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
```

At the bottom, there is a terminal window with the following output:

```
~:*** lab07.sh All L8 (Shell-script[bash])
~/lab07.sh locked by nazirovamt@na... (pid 3563): (s, q, p, ?)?
U:%*- *Messages* Bot L20 (Messages)
```

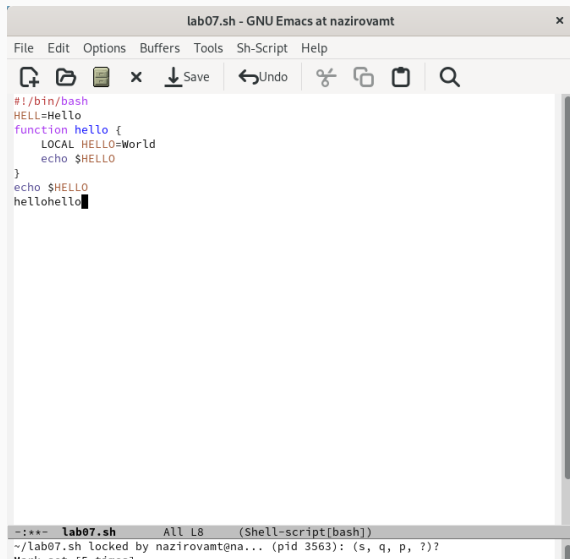
Вставить эту строку в конец файла (С-у).



```
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=World
    echo $HELLO
}
echo $HELLO
hello
```

~:*** lab07.sh All L8 (Shell-script[bash])
~/lab07.sh locked by nazirovamt@na... (pid 3563): (s, q, p, ?)?
Mark set
U:*** *Messages* Bot L21 (Messages)

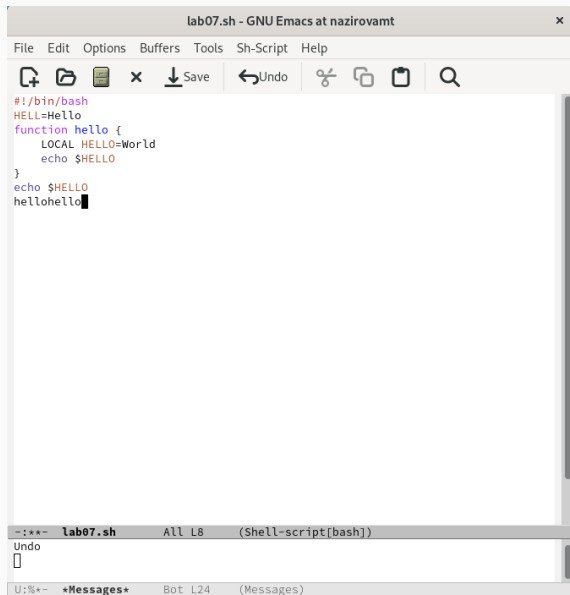
Выделить область текста, скопировать его в буфер обмена и вставить область в конец файла.



```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
```

~:***- lab07.sh All L8 (Shell-script[bash])
~/lab07.sh locked by nazirovamt@na... (pid 3563): (s, q, p, ?)?
Work not finished

Вновь выделить эту область и на этот раз вырезать её (C-w).



```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELL
hellohello
```

lab07.sh - GNU Emacs at nazirovamt

File Edit Options Buffers Tools Sh-Script Help

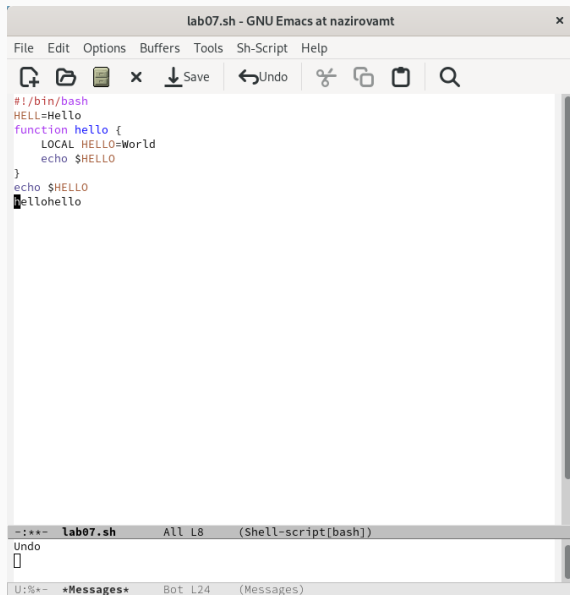
Save Undo

~:*** lab07.sh All L8 (Shell-script[bash])

Undo

U:*** *Messages* Bot L24 (Messages)

Отмените последнее действие (C-/).

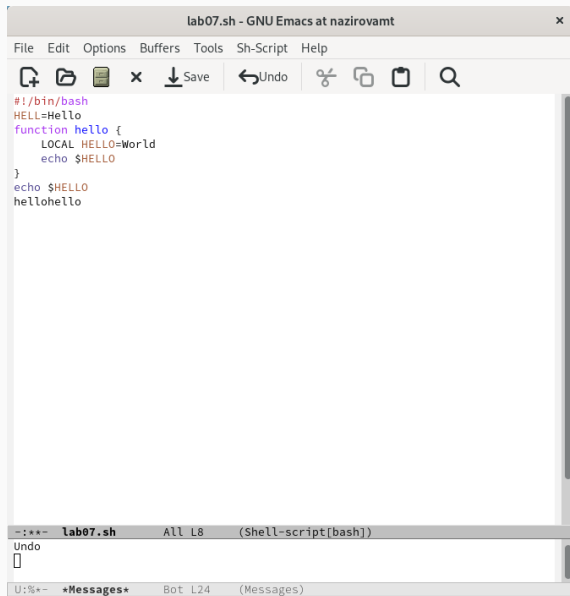


```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
Hellohello
```

~:*** lab07.sh All L8 (Shell-script[bash])
Undo
~

U:*** *Messages* Bot L24 (Messages)

Переместите курсор в начало строки (C-a).



lab07.sh - GNU Emacs at nazirovamt

File Edit Options Buffers Tools Sh-Script Help

Save Undo Cut Copy Paste Find

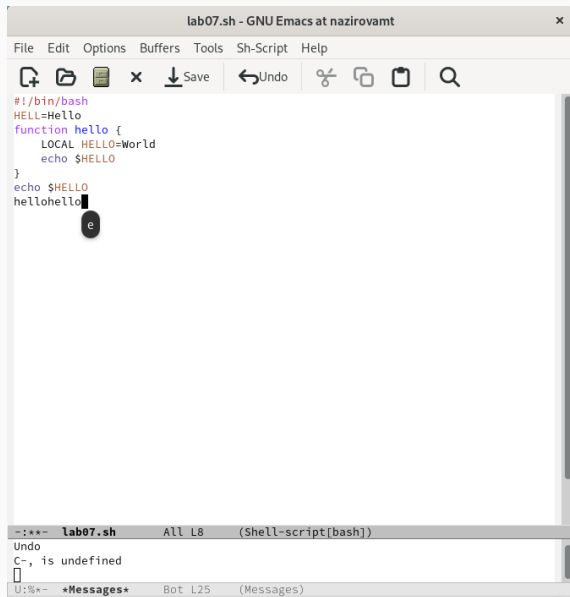
```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
```

~:*** lab07.sh All L8 (Shell-script[bash])

Undo

U:*** *Messages* Bot L24 (Messages)

Переместите курсор в конец строки (C-e).

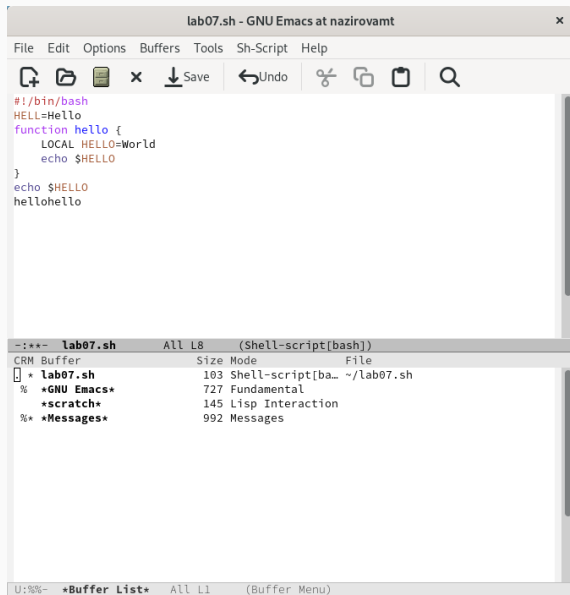


The screenshot shows the GNU Emacs editor window titled "lab07.sh - GNU Emacs at nazirovamt". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for opening, saving, undo, redo, and search. The main text area displays a shell script:

```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
```

The cursor is at the end of the "hellohello" line. A tooltip with the letter "e" is visible near the cursor. The bottom status bar shows the current buffer is "lab07.sh" at line 8, column 18, in a shell script. Below the status bar, the terminal output shows the command "C-, is undefined" and the message "*Messages*" from the bot.

Переместите курсор в конец буфера (M->).



The screenshot shows the GNU Emacs editor interface. The main window displays a shell script named `lab07.sh` with the following content:

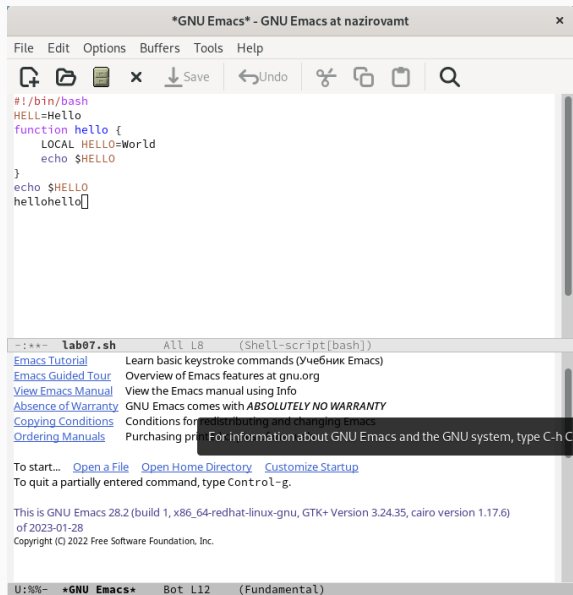
```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
```

Below the main window, the **Buffer List** window is open, showing a table of buffers. The table has columns for CRM, Buffer, Size, Mode, and File. The buffers listed are:

CRM	Buffer	Size	Mode	File
1	*lab07.sh	103	Shell-script[ba...	~/lab07.sh
2	*GNU Emacs*	727	Fundamental	
3	*scratch*	145	Lisp Interaction	
4	*Messages*	992	Messages	

The status bar at the bottom indicates the current buffer is `U:%%- *Buffer List*` and the mode is `All L1 (Buffer Menu)`.

Вывести список активных буферов на экран (C-x C-b).



The screenshot shows the GNU Emacs editor interface. The main window displays a shell script with the following content:

```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
```

Below the script, the command `C-x C-b` has been executed, displaying the list of active buffers. The output is as follows:

```
~:*** lab07.sh All L8 (Shell-script[bash])
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 printFor information about GNU Emacs and the GNU system, type C-h C
```

Below the buffer list, there is a section for startup and quitting:

```
To start... Open a File Open Home Directory Customize Startup
To quit a partially entered command, type Control-g.
```

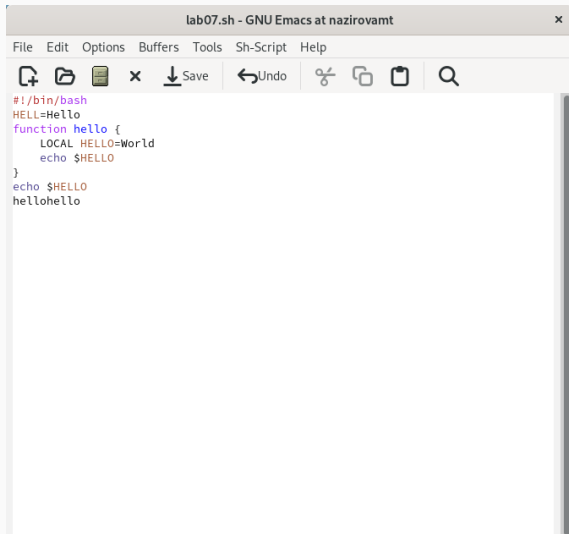
At the bottom, the Emacs version and copyright information are displayed:

```
This is GNU Emacs 28.2 (build 1, x86_64-redhat-linux-gnu, GTK+ Version 3.24.35, cairo version 1.17.6)
of 2023-01-28
Copyright (C) 2022 Free Software Foundation, Inc.
```

The status bar at the bottom shows the current buffer is `lab07.sh` and the mode is `(Fundamental)`.

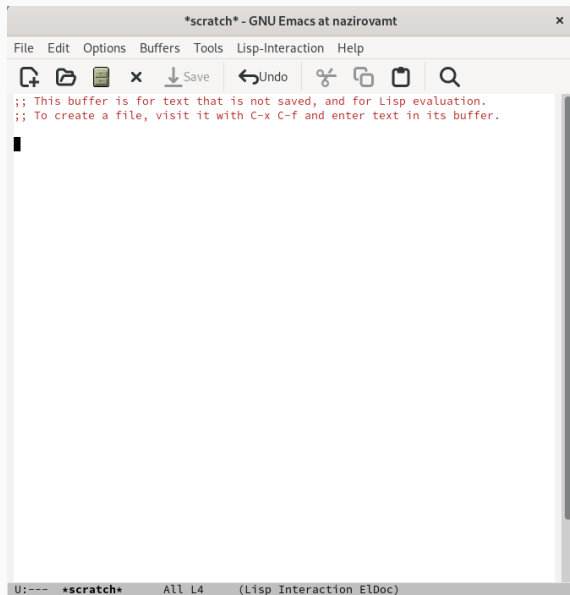
Переместитесь во вновь открытое окно (С-х) о со списком открытых буферов

и переключитесь на другой буфер.



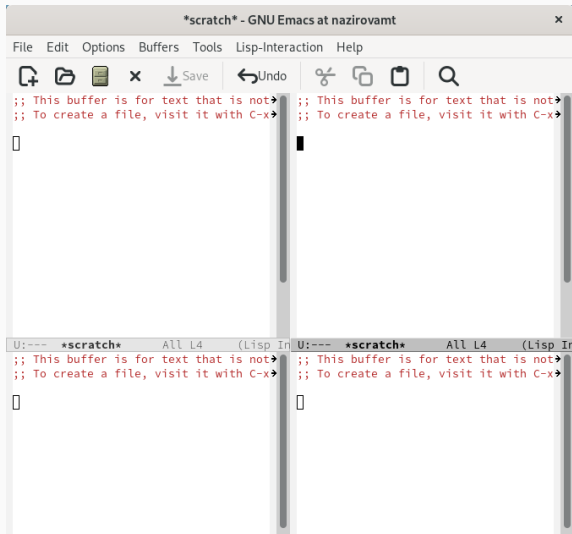
```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
```

Закройте это окно (C-x 0).



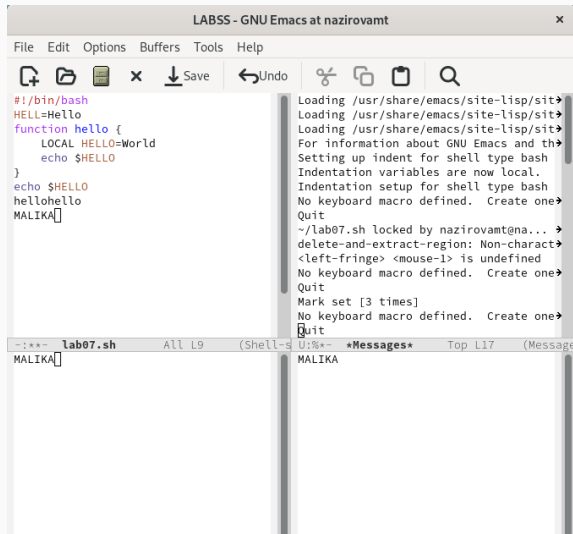
Теперь вновь переключайтесь между буферами, но уже без вывода их списка на

экран (C-x b).



Поделите фрейм на 4 части: разделите фрейм на два окна по вертикали (C-x 3),

а затем каждое из этих окон на две части по горизонтали (C-x 2).



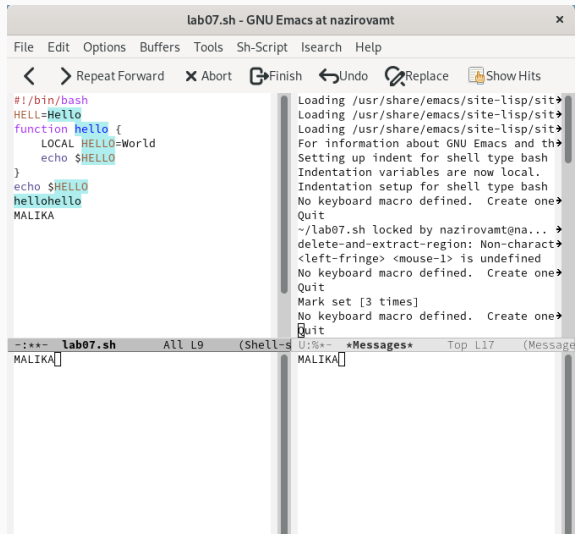
```
LABSS - GNU Emacs at nazirovamt x
File Edit Options Buffers Tools Help
[Icons] Save Undo [Icons]
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
MALIKA

Loading /usr/share/emacs/site-lisp/site-lisp...
Loading /usr/share/emacs/site-lisp/site-lisp...
Loading /usr/share/emacs/site-lisp/site-lisp...
For information about GNU Emacs and the GNU system, see
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
No keyboard macro defined. Create one?
Quit
~/lab07.sh locked by nazirovamt@na...
delete-and-extract-region: Non-character
<left-fringe> <mouse-1> is undefined
No keyboard macro defined. Create one?
Quit
Mark set [3 times]
No keyboard macro defined. Create one?
Quit

-:*** lab07.sh All L9 (Shell-s) U:*** *Messages* Top L17 (Message)
MALIKA
MALIKA
```

В каждом из четырёх созданных окон откройте новый буфер (файл) и введите

несколько строк текста.



The screenshot shows the GNU Emacs editor interface. The title bar reads "lab07.sh - GNU Emacs at nazirovamt". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", "Isearch", and "Help". The toolbar contains icons for navigation and editing: back, forward, Repeat Forward, Abort, Finish, Undo, Replace, and Show Hits. The main editing area is split into two panes. The left pane contains a shell script:

```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
MALIKA
```

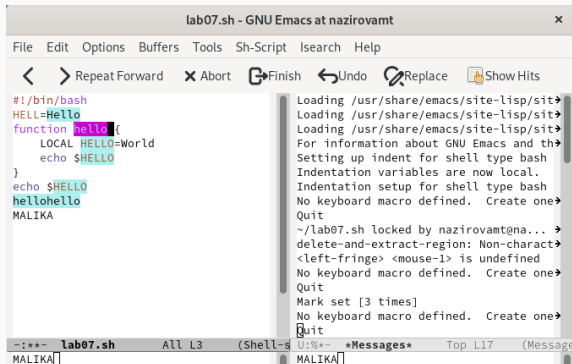
The right pane shows the output of the script's execution:

```
Loading /usr/share/emacs/site-lisp/sit>
Loading /usr/share/emacs/site-lisp/sit>
Loading /usr/share/emacs/site-lisp/sit>
For information about GNU Emacs and th>
Setting up indent for shell type bash>
Indentation variables are now local.>
Indentation setup for shell type bash>
No keyboard macro defined. Create one>
Quit
~/lab07.sh locked by nazirovamt@na...>
delete-and-extract-region: Non-charact>
<left-fringe> <mouse-1> is undefined>
No keyboard macro defined. Create one>
Quit
Mark set [3 times]
No keyboard macro defined. Create one>
Quit
```

At the bottom, the status bar shows two buffers: "lab07.sh" (Shell script) and "*Messages*" (Message buffer). The cursor is at the end of the "MALIKA" line in the left buffer.

Переключитесь в режим поиска (C-s) и найдите несколько слов, присутствующих

В ТЕКСТЕ.



The screenshot shows the GNU Emacs editor window titled "lab07.sh - GNU Emacs at nazirovamt". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, Isearch, and Help. The toolbar shows navigation and search icons. The main text area contains a shell script snippet:

```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
MALIKA
```

The right-hand pane displays the results of a search for the word "HELLO". The search results are as follows:

```
Loading /usr/share/emacs/site-lisp/sit
Loading /usr/share/emacs/site-lisp/sit
Loading /usr/share/emacs/site-lisp/sit
For information about GNU Emacs and th
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
No keyboard macro defined. Create one>
Quit
~/lab07.sh locked by nazirovamt@na... >
delete-and-extract-region: Non-charact
<left-fringe> <mouse-1> is undefined
No keyboard macro defined. Create one>
Quit
Mark set [3 times]
No keyboard macro defined. Create one>
Quit
```

The status bar at the bottom shows the current buffer is "lab07.sh", the search is for "HELLO", and the results are displayed in the right-hand pane.

Переключайтесь между результатами поиска, нажимая C-s.

The screenshot shows the GNU Emacs editor interface. The main window displays a shell script named `lab07.sh` with the following content:

```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hellohello
MALIKA
```

The right-hand pane shows the output of the script, which includes loading messages for Emacs Lisp site files and the execution of the `hello` function:

```
Loading /usr/share/emacs/site-lisp/site...
Loading /usr/share/emacs/site-lisp/site...
Loading /usr/share/emacs/site-lisp/site...
For information about GNU Emacs and th...
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
No keyboard macro defined. Create one>
Quit
~/lab07.sh locked by nazirovamt@na...
delete-and-extract-region: Non-charact...
<left-fringe> <mouse-1> is undefined
No keyboard macro defined. Create one>
Quit
Mark set [3 times]
No keyboard macro defined. Create one>
Quit
```

The bottom status bar shows the current buffer is `lab07.sh` and the cursor is at line 9, column 17.

Спасибо за внимание!)
