

Лабораторная работа 9

Операционные системы

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Информация

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

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

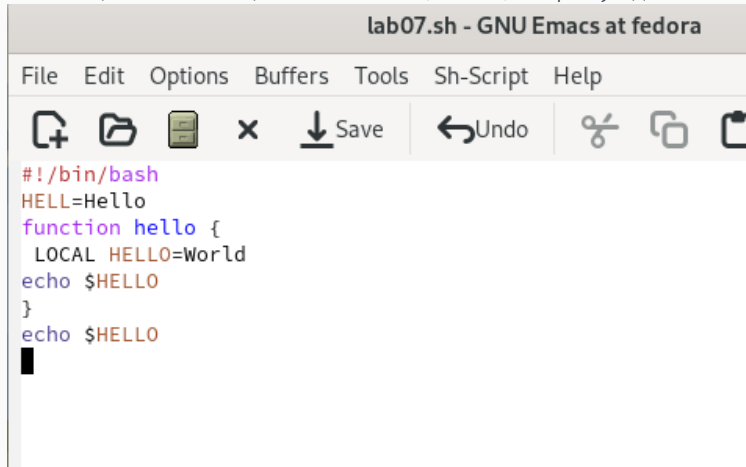
A screenshot of the GNU Emacs status bar. It shows the text 'U:%%-' followed by a star, 'GNU Emacs', another star, 'All L1', and '(Fundamental)' in parentheses. The background is a light gray bar.

U:%%- *GNU Emacs* All L1 (Fundamental)

A screenshot of the Emacs command line. The text 'Find file: ~/lab07.sh' is displayed in blue. The background is a white bar.

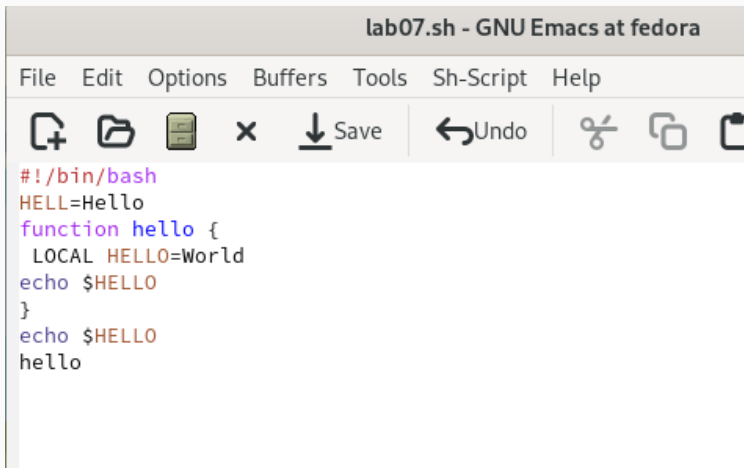
Find file: ~/lab07.sh

с помощью комбинации Ctrl-x Ctrl-s (C-x C-s). Вырежу одной командой целую строку (C-k).



```
lab07.sh - GNU Emacs at fedora
File Edit Options Buffers Tools Sh-Script Help
[Icons: Open, Save, Undo, etc.]
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
```

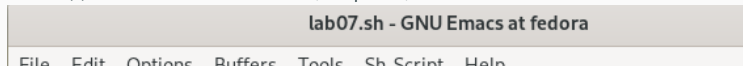
Вставляю эту строку



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

в конец файла (C-y).

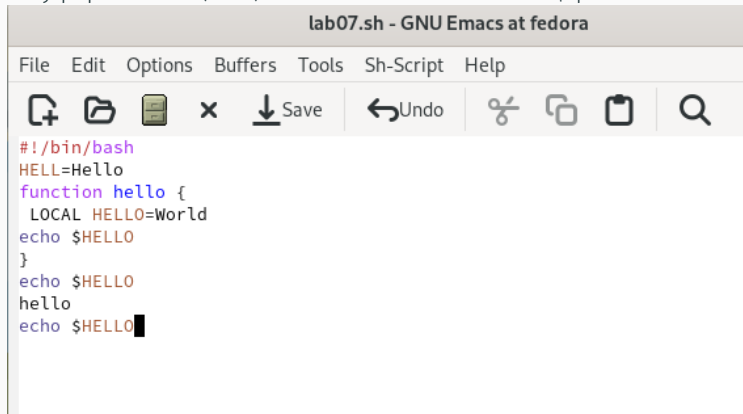
#3 Выделю область текста (C-space).



```
lab07.sh - GNU Emacs at fedora
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash
```

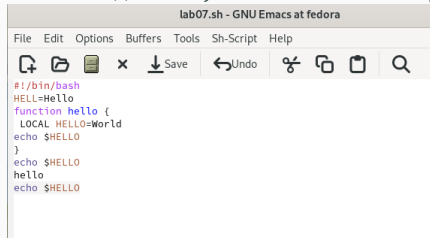
Скопирую область

в буфер обмена (M-w). Вставляю область в конец файла.



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


Вновь выделю эту область и на этот раз вырежу её (C-w).

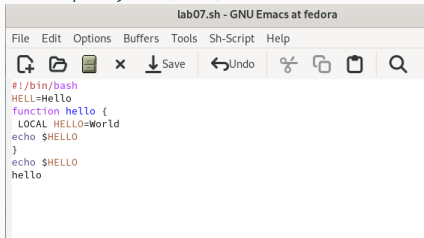


lab07.sh - GNU Emacs at fedora

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
hello
echo $HELLO
```



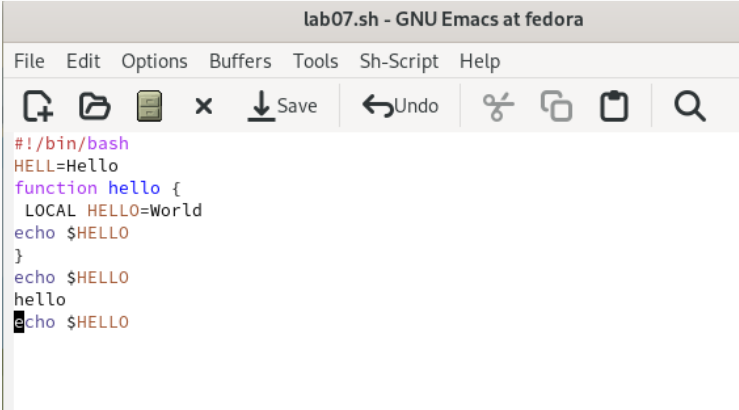
lab07.sh - GNU Emacs at fedora

File Edit Options Buffers Tools Sh-Script Help

Save Undo Cut Copy Paste Find

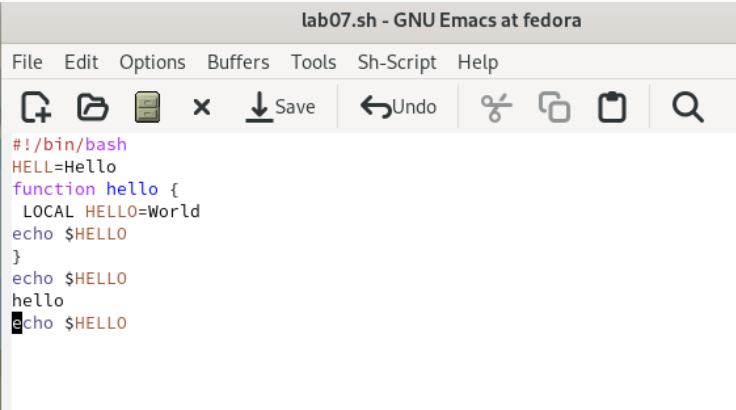
```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hello
```

Отменю последнее действие



```
lab07.sh - GNU Emacs at fedora
File Edit Options Buffers Tools Sh-Script Help
[Icons: Open, Save, Undo, Redo, Search] Save Undo
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
(C-/).
```

Перемещу курсор в начало строки



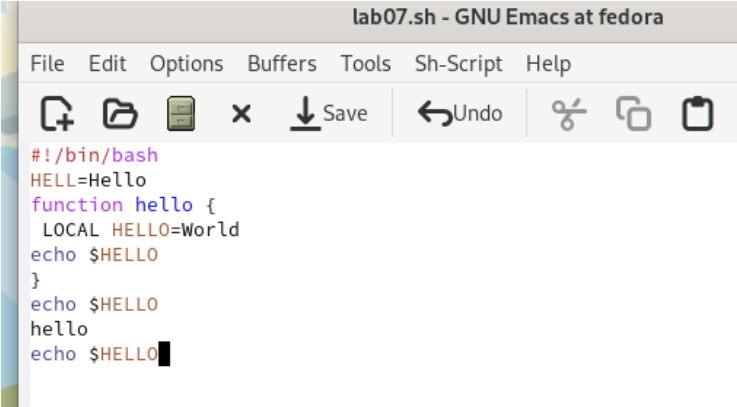
The screenshot shows the GNU Emacs editor interface. The title bar reads "lab07.sh - GNU Emacs at fedora". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for opening a file, saving, undo, redo, and search, along with text labels "Save" and "Undo". The script content is as follows:

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

The cursor is positioned at the beginning of the final line, "echo \$HELLO".

(C-a).

Перемещу курсор в конец строки



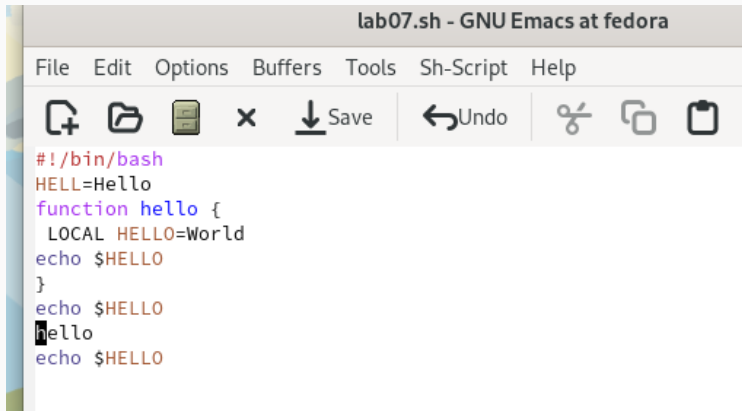
The screenshot shows the GNU Emacs editor interface. The title bar reads "lab07.sh - GNU Emacs at fedora". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for opening, saving, undo, redo, and other editing functions. The main text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

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

The cursor is positioned at the end of the last line, "echo \$HELLO".

(C-e).

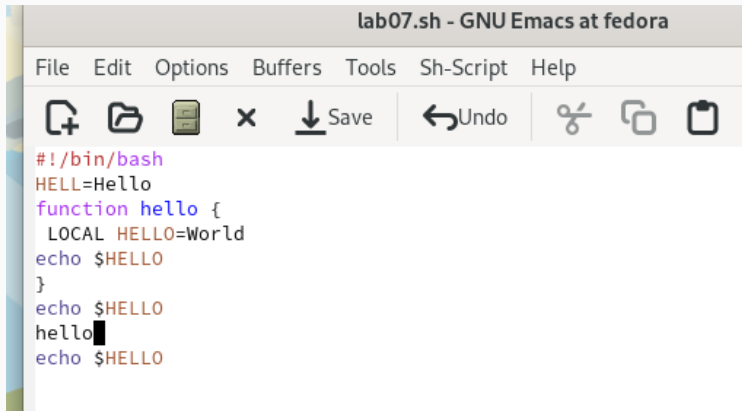
Перемещу курсор в начало буфера



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

(M-<).

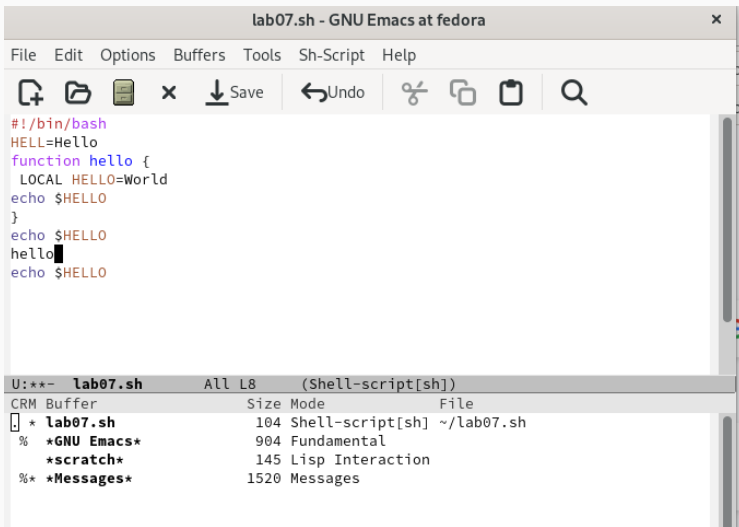
Перемещу курсор в конец буфера



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

(M->).

Выведу список активных буферов на экран



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

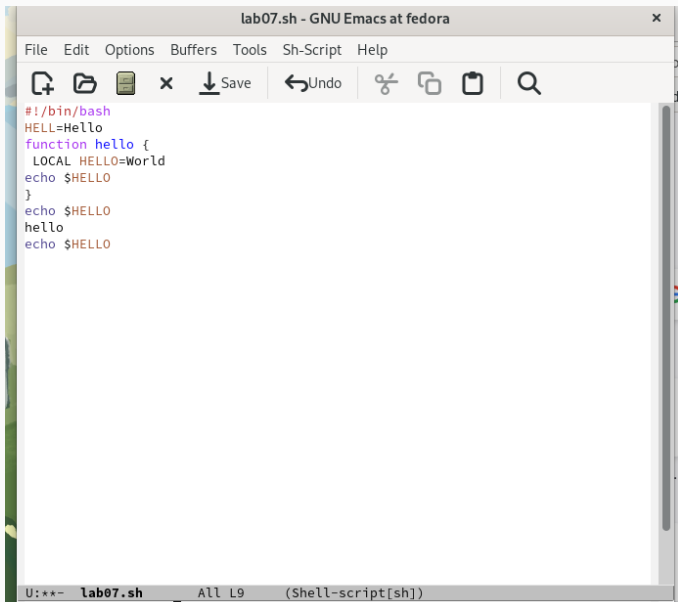
```
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
```

Below the text area, the "Buffers" window is open, showing the command "U:*** lab07.sh" and "All L8 (Shell-script[sh])". It displays a table of active buffers:

CRM	Buffer	Size	Mode	File
1	* lab07.sh	104	Shell-script[sh]	~/lab07.sh
%	*GNU Emacs*	904	Fundamental	
	scratch	145	Lisp Interaction	
%*	*Messages*	1520	Messages	

(C-x C-b).

Закрою это окно



```
lab07.sh - GNU Emacs at fedora
File Edit Options Buffers Tools Sh-Script Help
[Icons: Open, Save, Undo, Copy, Paste, Find]
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO

U:*** lab07.sh All L9 (Shell-script[sh])
```


Поделю фрейм на 4 части:

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
hello
echo $HELLO
```

Below the script, the `*Buffer List*` window is open, showing a table of buffers. The table is divided into two panes, each with a header row: `U:*** lab07.sh All L9 (Shell-script[sh])` and `U:***- *Buffer List* Bot L6 (Buffer...`.

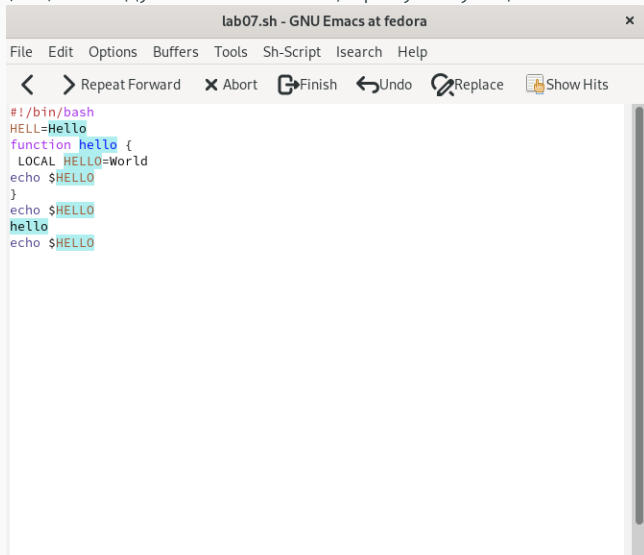
CRM	Buffer	Size	Mode
%	*GNU Emacs*	904	Fundam→
%	*Messages*	1763	Message→
%	*Help*	19170	Help →

The bottom pane of the buffer list window shows the same table structure, but with a different header: `U:***- *Buffer List* Bot L6 (Buffer...`.

CRM	Buffer	Size	Mode
%	*GNU Emacs*	904	Fundam→
%	*Messages*	1763	Message→
%	*Help*	19170	Help →

Переключусь в режим поиска

(C-s) и найду несколько слов, присутствующих в тексте.

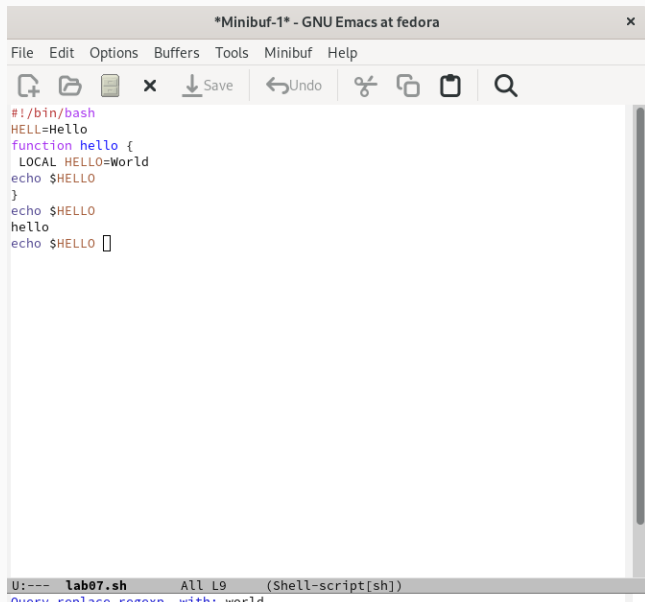


The screenshot shows the GNU Emacs editor window titled "lab07.sh - GNU Emacs at fedora". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, Isearch, and Help. The toolbar shows navigation and search icons: back, forward, Repeat Forward, Abort, Finish, Undo, Replace, and Show Hits. The main text area contains a shell script with the following content:

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

The search results are displayed as highlights on the text: "Hello" on line 2, "hello" on line 4, "HELLO" on line 5, "HELLO" on line 7, and "HELLO" on line 9.

Перейду в режим поиска и замены



The screenshot shows the GNU Emacs editor window titled "*Minibuf-1* - GNU Emacs at fedora". The menu bar includes File, Edit, Options, Buffers, Tools, Minibuf, 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
hello
echo $HELLO
```

At the bottom, the status bar shows "U:--- lab07.sh All L9 (Shell-script[sh])". A search/replace dialog is open, showing "Query: replace regexp with: world".

Я познакомилась с операционной системой Linux. Получила практические навыки работы с редактором Emacs.