

# Текстовой редактор emacs

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## Цель работы

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

Основные команды emacs

```
bdzhumaev@dk8n64 ~ $ emacs
```

# Создание файла



The screenshot shows the Emacs editor window titled 'emacs@dk8n64'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Minibuf', and 'Help'. The main text area displays the Emacs logo, which consists of a red stylized 'E' and the word 'Emacs' in blue. Below the logo, a welcome message reads: 'Welcome to [GNU Emacs](#), one component of the [GNU/Linux](#) operating system.' This is followed by two links: 'Emacs Tutorial' and 'Emacs Guided Tour'. A status bar at the bottom of the window shows 'U:%%- \*GNU Emacs\* Top L5 (Fundamental) Чт мая 20 14:52 0.55'. Below the status bar, a warning message is displayed: 'Warning (initialization): An error occurred while loading '~/emacs': error: Package 'fira-code-mode-' is unavailable'. The message continues with instructions: 'To ensure normal operation, you should investigate and remove the cause of the error in your initialization file. Start Emacs with the '--debug-init' option to view a complete error backtrace.' and ends with a cursor. At the very bottom, another status bar shows 'U:%%- \*Warnings\* All L8 (Special) Чт мая 20 14:52 0.55' and a prompt 'Find file: ~/lab10.sh'.

```
emacs@dk8n64
File Edit Options Buffers Tools Minibuf Help

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

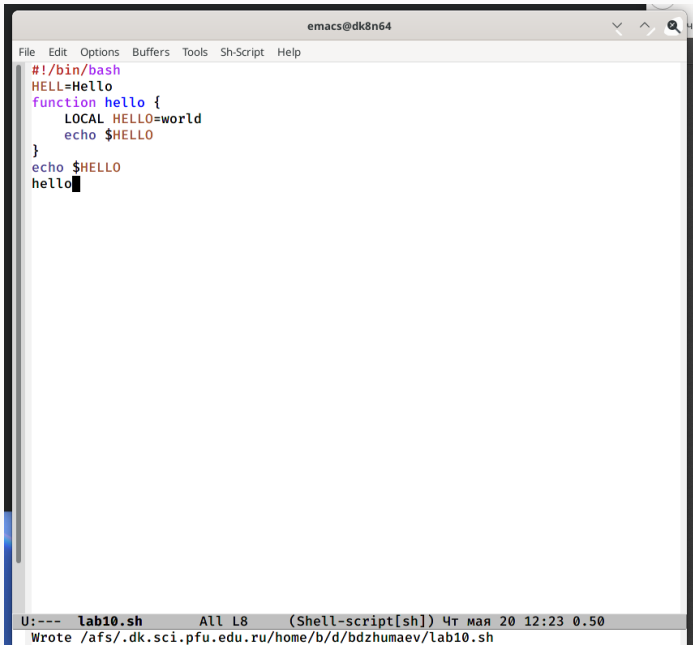
Emacs Tutorial      Learn basic keystroke commands (Учебник Emacs)
Emacs Guided Tour  Overview of Emacs features at gnu.org

U:%%- *GNU Emacs* Top L5 (Fundamental) Чт мая 20 14:52 0.55
Warning (initialization): An error occurred while loading '~/emacs':

error: Package 'fira-code-mode-' is unavailable

To ensure normal operation, you should investigate and remove the
cause of the error in your initialization file. Start Emacs with
the '--debug-init' option to view a complete error backtrace.
█

U:%%- *Warnings* All L8 (Special) Чт мая 20 14:52 0.55
Find file: ~/lab10.sh
```



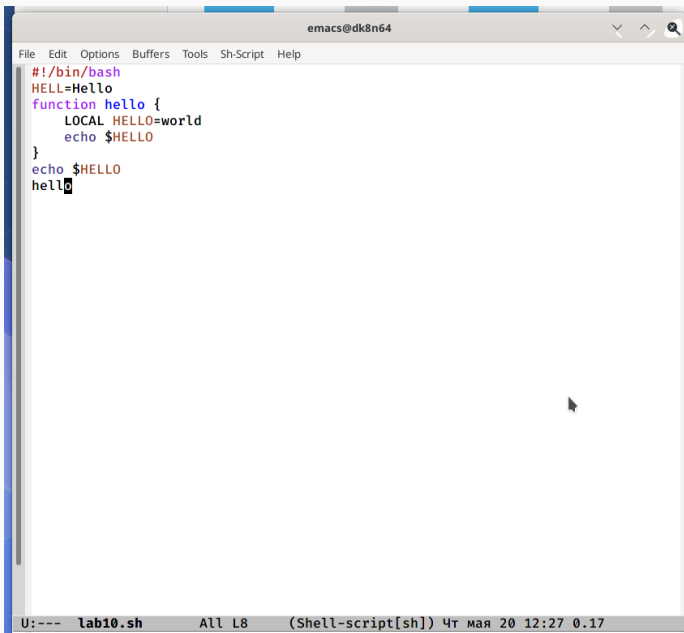
The image shows a screenshot of an Emacs editor window. The title bar at the top reads "emacs@dk8n64". Below the title bar is a menu bar with the following items: "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The main editing area contains a shell script with the following content:

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

The script defines a function named "hello" that takes a local variable "HELLO" with the value "world" and prints it. It then prints the value of the global variable "HELL" (which is "Hello") and finally calls the "hello" function. The cursor is positioned at the end of the "hello" function call on the last line.

At the bottom of the window, there is a status bar with the following text: "U:--- lab10.sh All L8 (Shell-script[sh]) Чт мая 20 12:23 0.50". Below this, a message is displayed: "Wrote /afs/.dk.sci.pfu.edu.ru/home/b/d/bdzhumaeu/lab10.sh".

# Сохранение файла

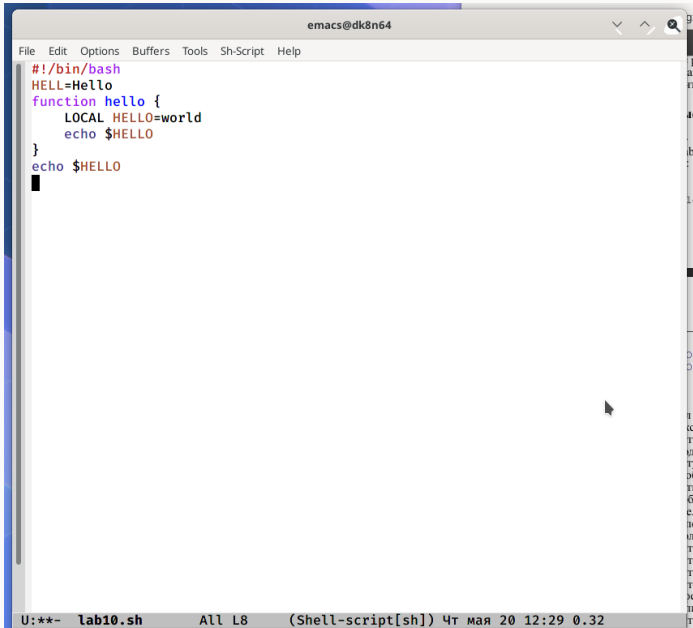


The image shows a screenshot of an Emacs editor window. The title bar at the top reads "emacs@dk8n64". Below the title bar is a menu bar with the following items: "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The main editing area contains a shell script with the following content:

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

The cursor is positioned at the end of the word "hello" on the last line. The status bar at the bottom of the window displays the following information: "U:--- lab10.sh", "All L8", "(Shell-script[sh])", "Чт мая 20 12:27 0.17".

# Вырезка целой строки

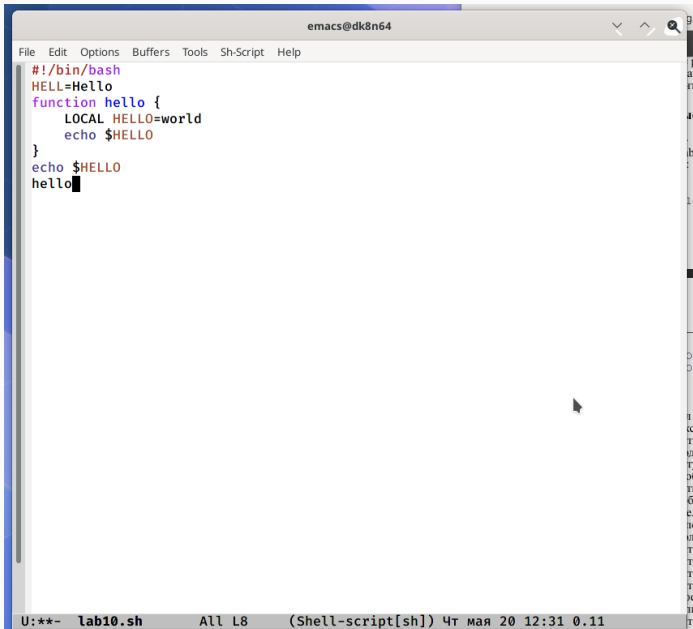


```
emacs@dk8n64
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
█

U:*** lab10.sh All L8 (Shell-script[sh]) Чт мая 20 12:29 0.32
```



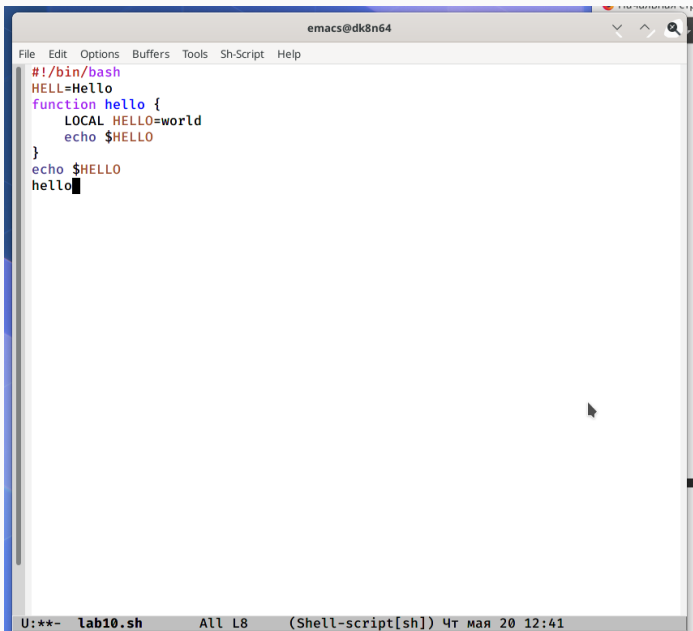
# Вставка строки



```
emacs@dk8n64
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello
```

U:\*\*\* lab10.sh All L8 (Shell-script[sh]) Чт мая 20 12:31 0.11

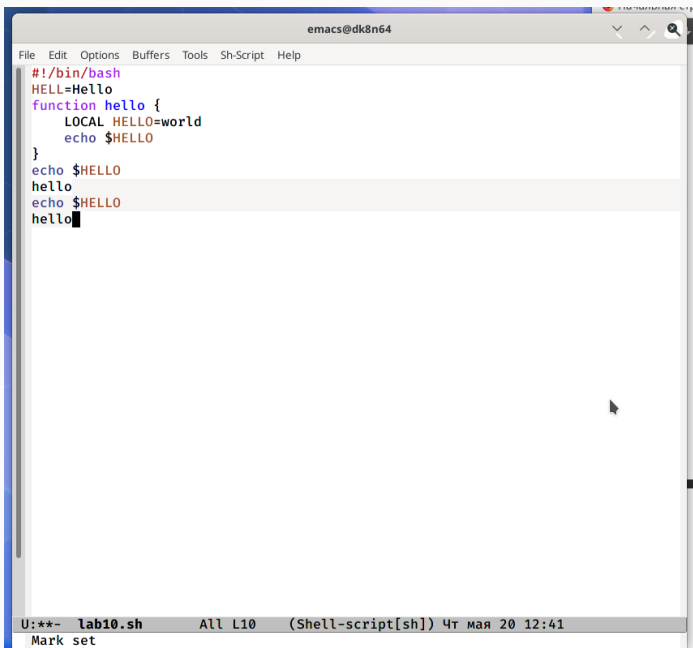
# Выделение области текста



The screenshot shows an Emacs editor window titled "emacs@dk8n64". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The editor contains the following shell script:

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

The cursor is positioned at the end of the "hello" command on the last line. The status bar at the bottom displays "U:\*\*\* lab10.sh All L8 (Shell-script[sh]) Чт мая 20 12:41".

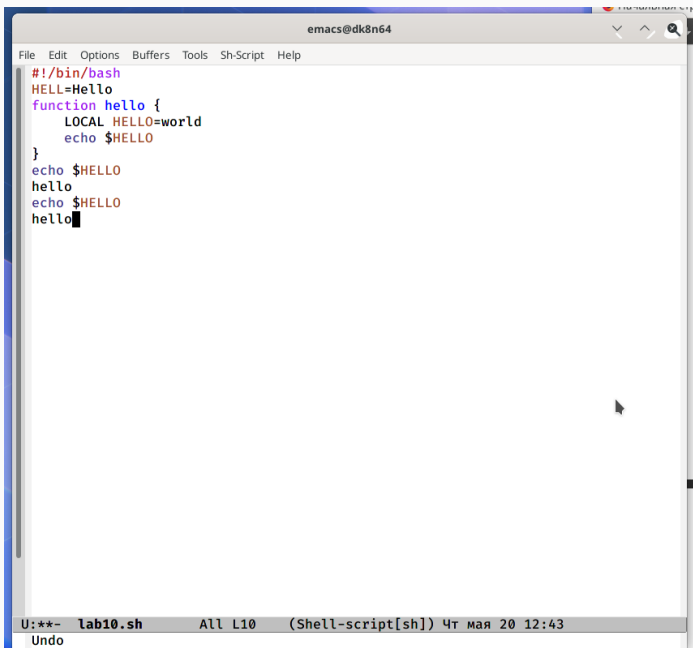


The screenshot shows an Emacs editor window titled 'emacs@dk8n64'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The editor contains a shell script with the following content:

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

The script defines a function 'hello' that sets a local variable 'HELLO' to 'world' and echoes it. It then calls 'echo \$HELLO' and the function 'hello' three times. The first 'hello' call is highlighted in light gray. The cursor is at the end of the second 'hello' line. The status bar at the bottom shows 'U:\*\*\* lab10.sh All L10 (Shell-script[sh]) Чт мая 20 12:41 Mark set'.

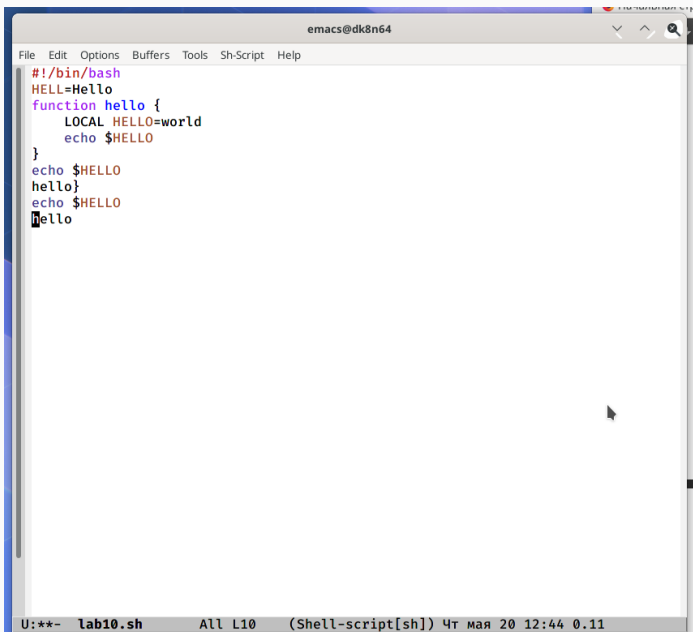
# Выделение и вырезка области



```
emacs@dk8n64
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
```

U:\*\*\* lab10.sh All L10 (Shell-script[sh]) Чт мая 20 12:43  
Undo

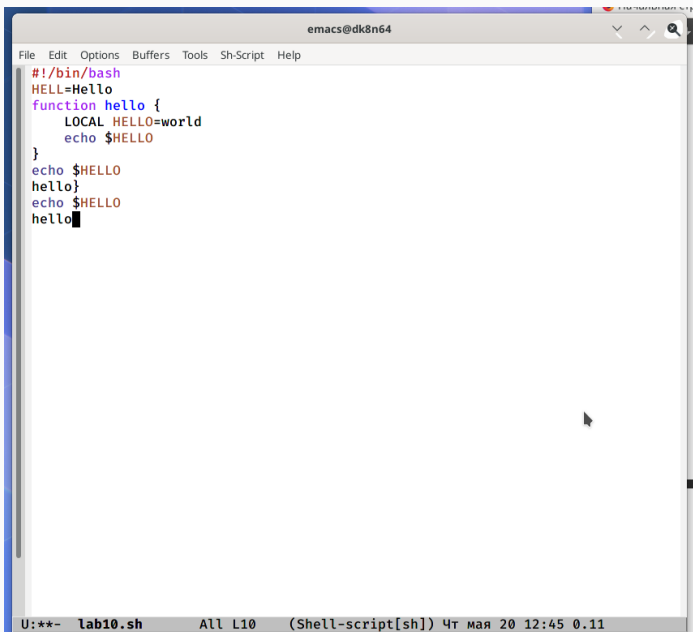
# Отмена последнего действия



```
emacs@dk8n64
File Edit Options Buffers Tools Sh-Script Help
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
```

U:\*\*\* lab10.sh All L10 (Shell-script[sh]) Чт мая 20 12:44 0.11

# Перемещение курсора в начало строки

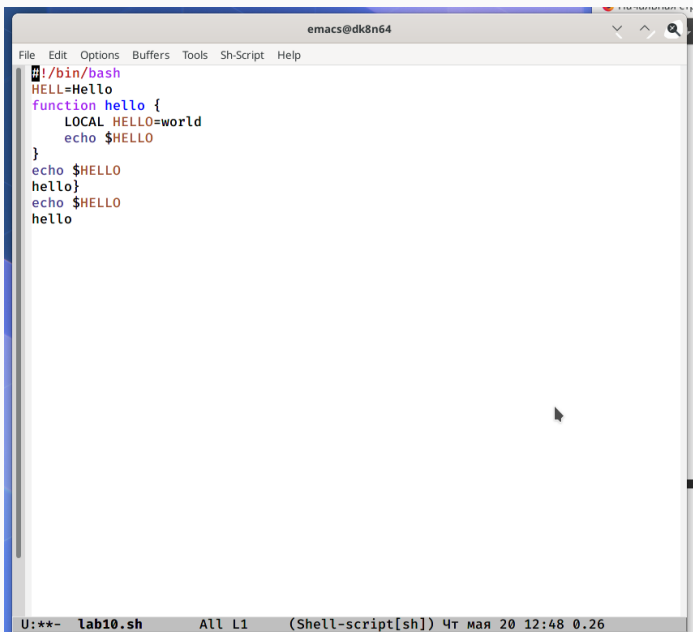


The screenshot shows the Emacs editor window titled 'emacs@dk8n64'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The editor contains a shell script with the following content:

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

The cursor is positioned at the end of the last line 'hello'. The status bar at the bottom displays 'U:\*\*\* lab10.sh All L10 (Shell-script[sh]) Чт мая 20 12:45 0.11'.

# Перемещение курсора в конец строки

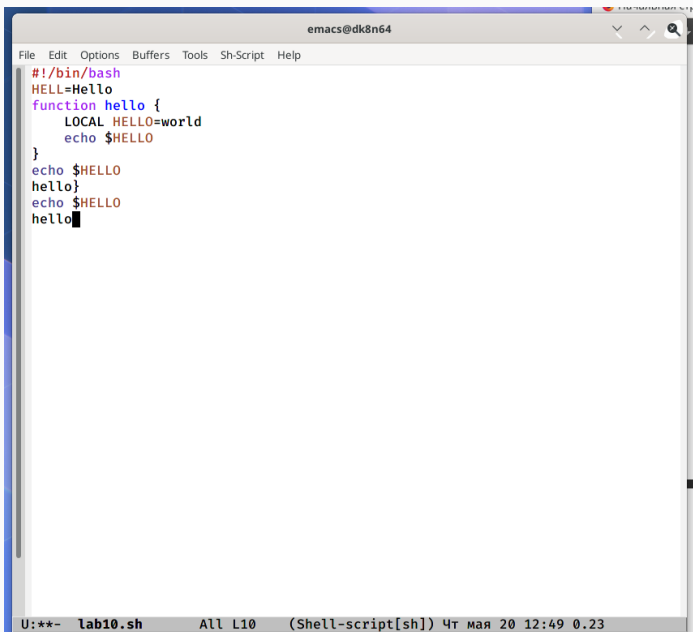


The screenshot shows the Emacs editor window titled "emacs@dk8n64". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The editor contains a shell script with the following content:

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

The cursor is positioned at the end of the last line, "hello". The status bar at the bottom displays "U:\*\*\* lab10.sh All L1 (Shell-script[sh]) Чт мая 20 12:48 0.26".

# Перемещение курсора в начало буфера



The screenshot shows an Emacs editor window titled "emacs@dk8n64". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The editor contains a shell script with the following content:

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

The cursor is positioned at the end of the last line, "hello".

The status bar at the bottom displays: "U:\*\*\* lab10.sh All L10 (Shell-script[sh]) Чт мая 20 12:49 0.23".



## Перемещение курсора в конец буфера

```
LOCAL HELLO=world
echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
```

U:\*\*\* lab10.sh All L10 (Shell-script[sh]) Чт мая 20 12:57

CRM	Buffer	Size	Mode	File
[ ]	* lab10.sh	118	Shell-script[sh]	~/lab10.sh
%	*Warnings*	314	Special	
%	*GNU Emacs*	723	Fundamental	
%	*scratch*	145	Lisp Interaction	
%	*Messages*	4742	Messages	
%	*Quail Completions*	0	Fundamental	

U:\*\*\* \*Buffer List\* All L1 (Buffer Menu) Чт мая 20 12:57

# Список активных буферов

```
LOCAL HELLO=world
echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
```

U:\*\*\* lab10.sh All L8 (Shell-script[sh]) Чт мая 20 12:59 0.11

<left-fringe> <drag-mouse-1> is undefined

Mark set [6 times]

Auto-saving...done

Mark set [2 times]

Auto-saving...done

Undo

C-, is undefined [6 times]

Auto-saving...done

U:\*\*\* \*Messages\* Bot L81 (Messages) Чт мая 20 12:59 0.11

## Другой буфер



The screenshot shows the Emacs editor window titled 'emacs@dk8n64'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Minibuf', and 'Help'. The main text area displays the Emacs logo, which consists of a red stylized 'E' and the word 'Emacs' in blue. Below the logo, a welcome message reads: 'Welcome to [GNU Emacs](#), one component of the [GNU/Linux](#) operating system.' This is followed by links to 'Emacs Tutorial' and 'Emacs Guided Tour', and a link to 'Learn basic keystroke commands (Учебник Emacs)'. A status bar at the bottom of the window shows 'U:%%- \*GNU Emacs\* Top L5 (Fundamental) Чт мая 20 14:52 0.55'. Below the status bar, a warning message is displayed: 'Warning (initialization): An error occurred while loading '~/.emacs': error: Package 'fira-code-mode-' is unavailable'. The message continues with instructions to investigate the error in the initialization file and to start Emacs with the '--debug-init' option to view a complete error backtrace. A cursor is visible at the end of the text. At the very bottom, another status bar shows 'U:%%- \*Warnings\* All L8 (Special) Чт мая 20 14:52 0.55' and a prompt 'Find file: ~/lab10.sh'.

```
emacs@dk8n64
File Edit Options Buffers Tools Minibuf Help

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

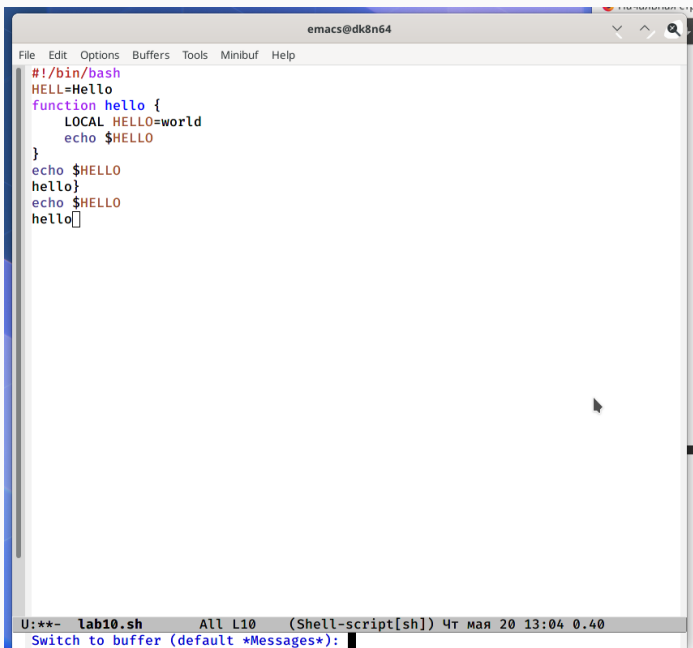
U:%%- *GNU Emacs* Top L5 (Fundamental) Чт мая 20 14:52 0.55
Warning (initialization): An error occurred while loading '~/.emacs':

error: Package 'fira-code-mode-' is unavailable

To ensure normal operation, you should investigate and remove the
cause of the error in your initialization file. Start Emacs with
the '--debug-init' option to view a complete error backtrace.
█

U:%%- *Warnings* All L8 (Special) Чт мая 20 14:52 0.55
Find file: ~/lab10.sh
```

# Заккрытие окна



```
emacs@dk8n64
File Edit Options Buffers Tools Minibuf Help
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
```

U:\*\*\*- lab10.sh All L10 (Shell-script[sh]) Чт мая 20 13:04 0.40  
Switch to buffer (default \*Messages\*):

## 4 части фрейма

```
emacs@dk8n64
File Edit Options Buffers Tools Sh-Script Help

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

U:*** lab10.sh All L13 (Shell-

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

U:*** lab10.sh All L13 (Shell-s

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

U:*** lab10.sh All L4 (Shell-

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

U:*** lab10.sh All L4 (Shell-s
```

# новый буфер с текстом

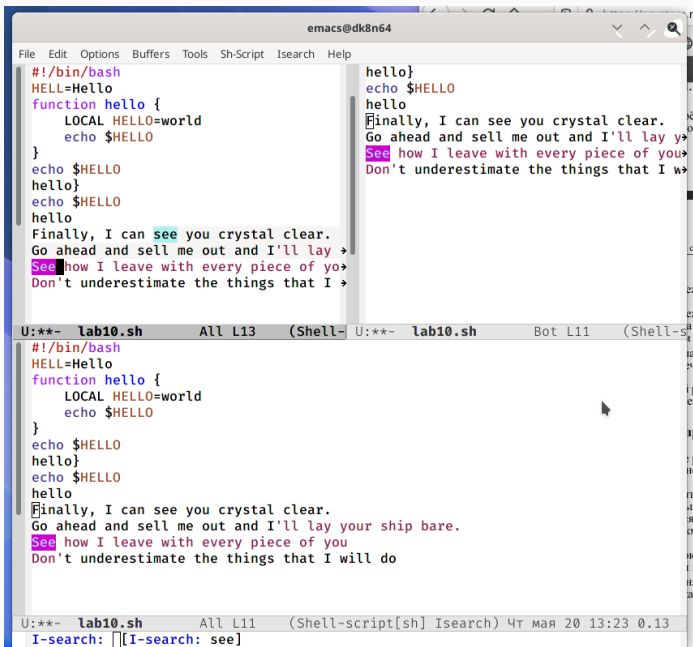
The screenshot shows the Emacs editor interface with a window titled 'emacs@dk8n64'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The main editing area contains a shell script with the following content:

```
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of yo
Don't underestimate the things that I y
```

Below the script, the output of the script is displayed in a separate buffer, showing the results of the function calls and the final message.

```
U:*** lab10.sh All L15 (Shell-
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of yo
Don't underestimate the things that I y
```

The bottom status bar shows the current buffer is 'lab10.sh' and the cursor is at line 11.



emacs@dk8n64

File Edit Options Buffers Tools Sh-Script Isearch Help

```
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of you
Don't underestimate the things that I w
```

U:\*\*\* lab10.sh All L13 (Shell- U:\*\*\* lab10.sh Bot L11 (Shell-S

```
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELLO
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay your ship bare.
See how I leave with every piece of you
Don't underestimate the things that I will do
```

U:\*\*\* lab10.sh All L11 (Shell-script[sh] Isearch) 4т мая 20 13:23 0.13

I-search: [I-search: see]

# Режим поиска и замены

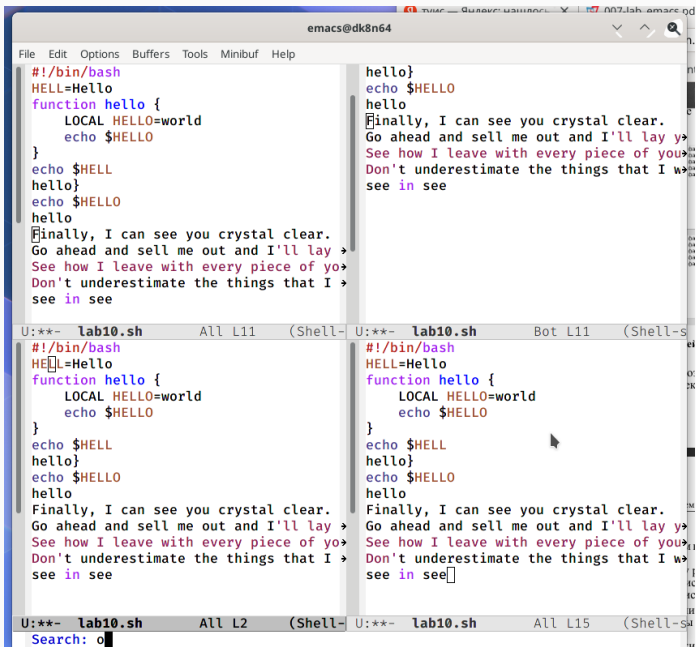
The screenshot shows the Emacs editor interface with a file named `lab10.sh` open. The editor is in the 'Search and Replace' mode, indicated by the status bar at the bottom which says 'Query replacing e with E: (? for help)'. The script content is as follows:

```
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELL
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of yo
Don't underestimate the things that I w
see in see
```

The search and replace operation is currently set to replace 'e' with 'E'. The status bar at the bottom shows 'U:\*\*\* lab10.sh All L2 (Shell-' and 'U:\*\*\* lab10.sh All L15 (Shell-'.



## Другой режим поиска



```
emacs@dk8n64
File Edit Options Buffers Tools Minibuf Help

#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELL
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of yo
Don't underestimate the things that I w
see in see

hello}
echo $HELLO
hello
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of yo
Don't underestimate the things that I w
see in see

U:*** lab10.sh All L11 (Shell- U:*** lab10.sh Bot L11 (Shell-S
#!/bin/bash
HELL=Hello
function hello {
    LOCAL HELLO=world
    echo $HELLO
}
echo $HELL
hello}
echo $HELLO
hello
Finally, I can see you crystal clear.
Go ahead and sell me out and I'll lay y
See how I leave with every piece of yo
Don't underestimate the things that I w
see in see

U:*** lab10.sh All L2 (Shell- U:*** lab10.sh All L15 (Shell-S
Search: o
```

Я познакомился с операционной системой Linux и получил практические навыки работы с редактором Emacs