

# Редактор Emacs

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Кирилл Захаров<sup>1</sup>

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<sup>1</sup>Российский Университет Дружбы Народов

# Цели и задачи работы

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## Цель лабораторной работы

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

# Задачи лабораторной работы

1 Изучить возможности редактора Emacs

# **Процесс выполнения лабораторной работы**

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# Выполнение работы

## 1. Откроем Emacs.

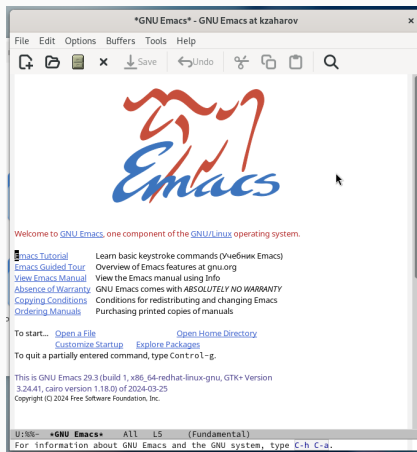
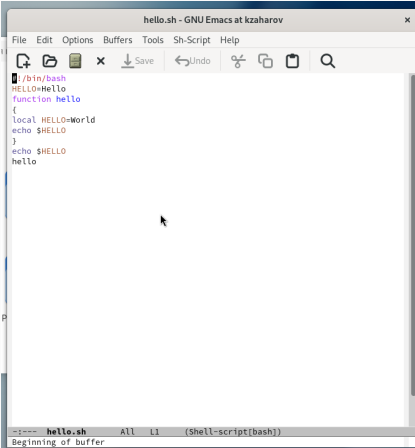


Рис. 1: Запуск Emacs

# Выполнение работы



The image shows a screenshot of the GNU Emacs editor window titled "hello.sh - GNU Emacs at kzaharov". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for file operations (open, save, close), editing (undo, redo, cut, copy, paste), and search. The main text area contains the following shell script code:

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

The status bar at the bottom of the window displays "---- hello.sh All L1 (Shell-script(bash))" and "Beginning of buffer".

Рис. 2: Новый файл

# Выполнение работы

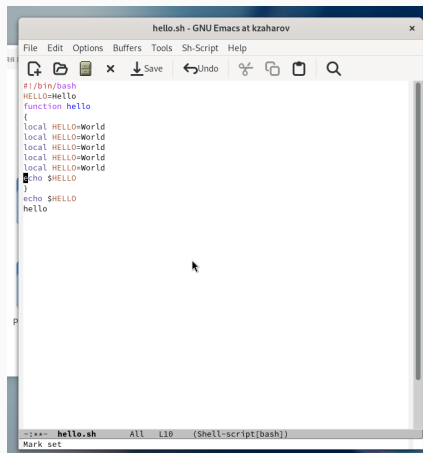
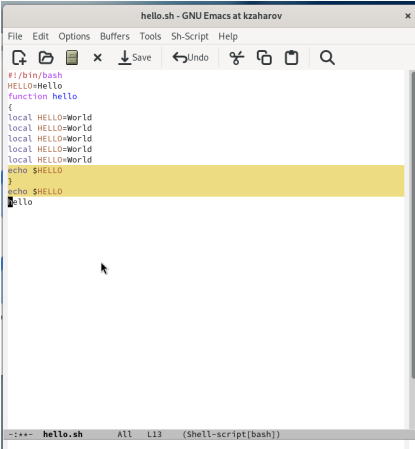


Рис. 3: Операция вставка



# Выполнение работы



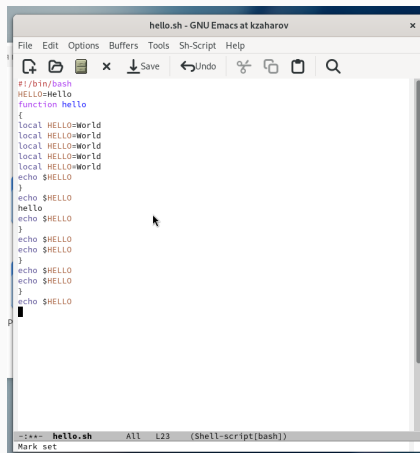
The image shows a GNU Emacs editor window titled "hello.sh - GNU Emacs at kzaharov". The window contains a shell script with the following content:

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

A yellow rectangular highlight is applied to the function definition and its first call, covering the lines from the opening curly brace to the first `echo $HELLO` statement. The Emacs interface includes a menu bar (File, Edit, Options, Buffers, Tools, Sh-Script, Help) and a toolbar with icons for saving, undo, and other editing actions. The status bar at the bottom indicates the current buffer is "hello.sh", the cursor is at line 13, and the mode is "(Shell-script(bash))".

Рис. 4: Выделение блока

# Выполнение работы



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

--- hello.sh All L23 (Shell-script[bash])  
Mark set

Рис. 5: Копирование блока

# Выполнение работы

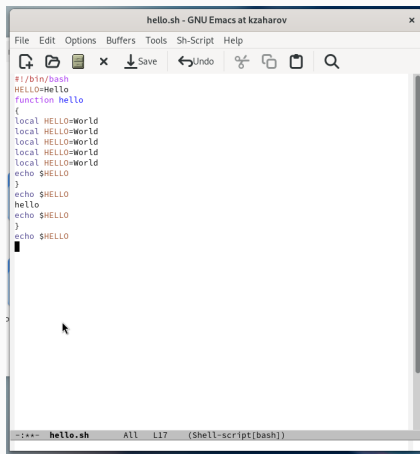
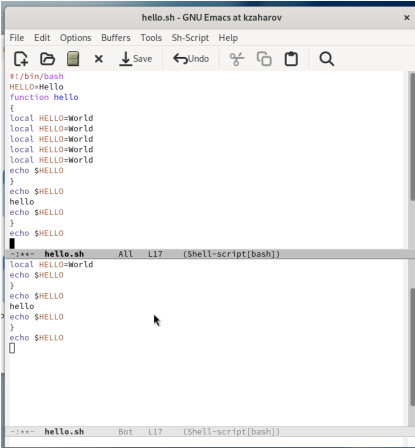


Рис. 6: Удаление блока

# Выполнение работы



The screenshot shows the GNU Emacs editor window titled "hello.sh - GNU Emacs at kzaharov". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for file operations and editing. The main text area displays a shell script:

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

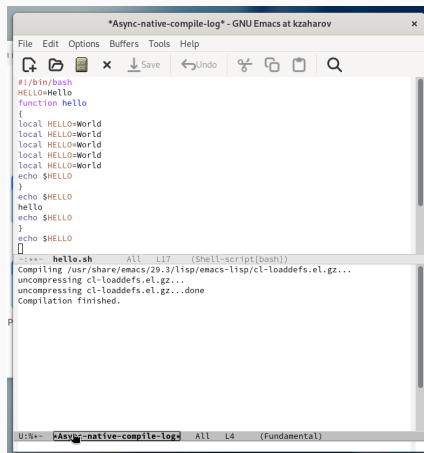
A horizontal line separates the script from its execution output. Below the line, the prompt "---- hello.sh" is followed by the output:

```
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
echo $HELLO
}
echo $HELLO
```

The status bar at the bottom shows "---- hello.sh Bot L17 (Shell-script[bash])".

Рис. 7: Горизонтальное разделение

# Выполнение работы



The screenshot shows the GNU Emacs editor window titled "\*Async-native-compile-log\* - GNU Emacs at kzaharov". The menu bar includes File, Edit, Options, Buffers, Tools, and Help. The toolbar contains icons for opening a file, saving, undo, redo, and search. The main text area displays a shell script named "hello.sh" with the following content:

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
}
echo $HELLO
[]
```

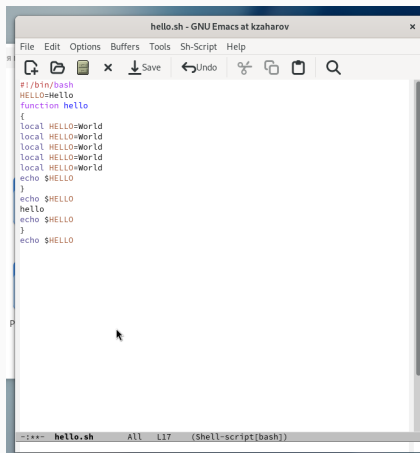
Below the script, the compilation output is shown:

```
*** hello.sh All L17 (Shell-script[bash])
Compiling /usr/share/emacs/29.3/lisp/emacs-lisp/cl-loaddefs.el.gz...
uncompressing cl-loaddefs.el.gz...
uncompressing cl-loaddefs.el.gz...done
Compilation finished.
```

The status bar at the bottom indicates the current buffer is "\*Async-native-compile-log\*", line 4, column 1, in the Fundamental mode.

Рис. 8: Переключение буфера

# Выполнение работы



```
hello.sh - GNU Emacs at kzaharov
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons] Search

#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
}
echo $HELLO

:::~*~ hello.sh All L17 (Shell-script{bash})
```

Рис. 9: Закроем буфер

# Выполнение работы

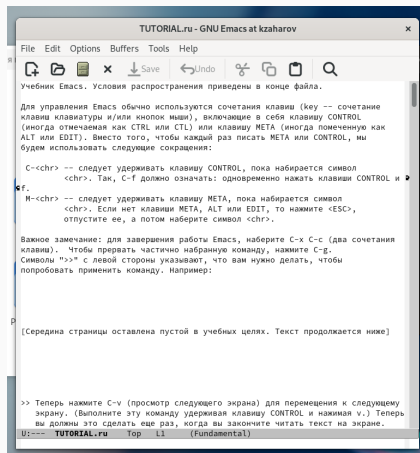


Рис. 10: Переключение буфера

# Выполнение работы

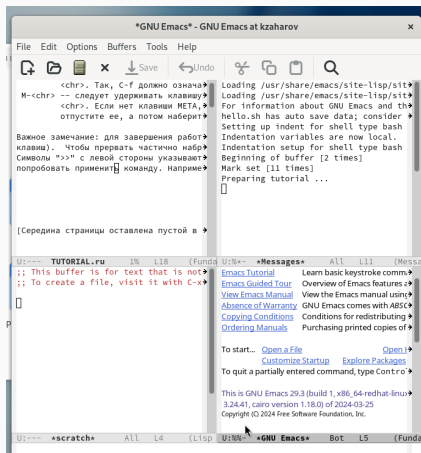
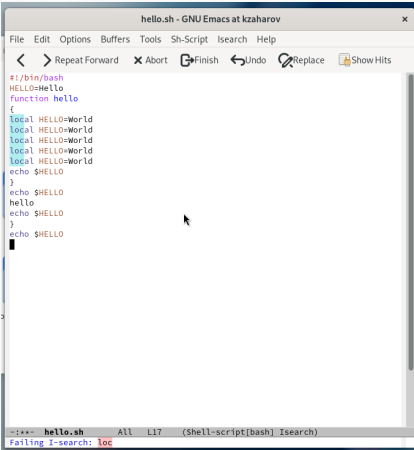


Рис. 11: Четыре буфера



# Выполнение работы



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

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

The search results are highlighted in red. The status bar at the bottom indicates the search is failing and shows the current position: "Failing I-search: loc All L17 (Shell-script[bash] Isearch)".

Рис. 12: Режим поиска

## **Выводы по проделанной работе**

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В данной работе мы познакомились с еще одним редактором операционной системой Linux. Получили практические навыки работы с редактором Emacs.