

# Редактор Emacs

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# 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.

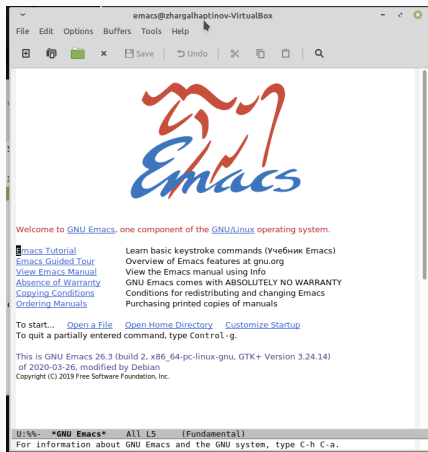
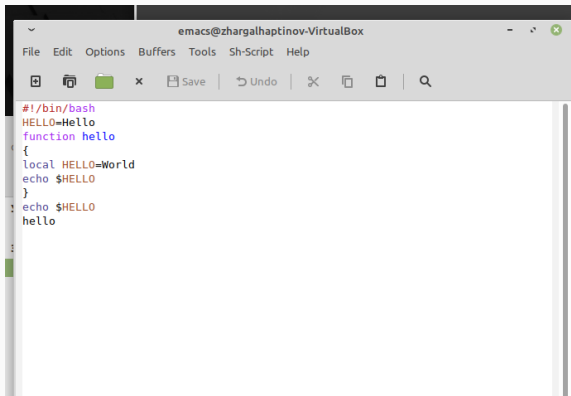


Figure 1: Запуск Emacs

# Выполнение работы

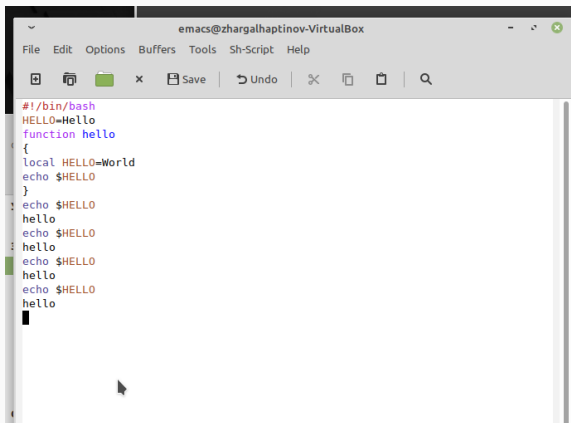


The image shows a screenshot of an Emacs editor window titled "emacs@zhargalhaptinov-VirtualBox". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for opening, saving, undo, redo, and search. The main text area contains a shell script with the following content:

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

**Figure 2:** Новый файл

# Выполнение работы

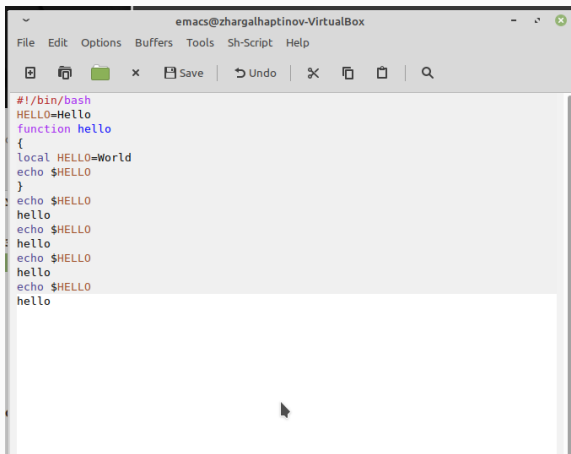


```
emacs@zhargalhaptinov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help
+ - x Save Undo | | | | |
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
```

**Figure 3:** Операция вставка



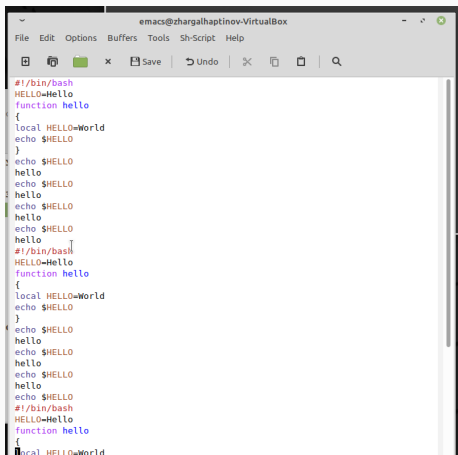
# Выполнение работы



```
emacs@zhargalhaptinov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons] [Icons] [Icons]
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
```

**Figure 4:** Выделение блока

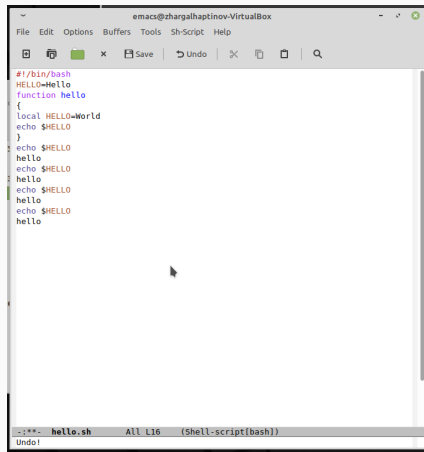
# Выполнение работы



```
emacs@zhargalhaptinov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons] [Icons] [Icons]
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
```

Figure 5: Копирование блока

# Выполнение работы

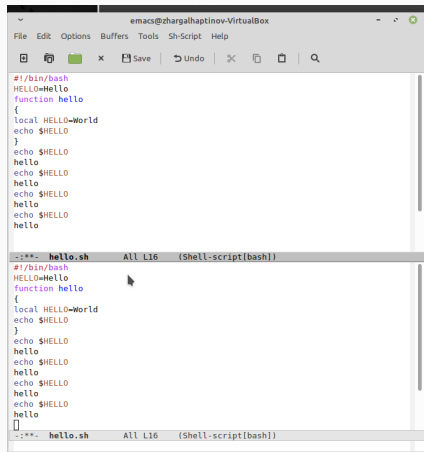


```
emacs@zhargalhaptinov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons]
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
hello

--:-- hello.sh All L16 (Shell-script(bash))
Undo!
```

Figure 6: Удаление блока

# Выполнение работы



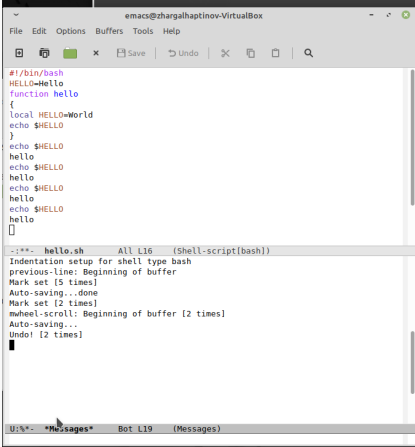
The screenshot shows the Emacs editor interface within a VirtualBox window titled 'emacs@zhargalhaptinov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The editor is split horizontally into two panes, both displaying the same shell script 'hello.sh'. The script content is as follows:

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

The status bar at the bottom of each pane shows 'hello.sh', 'All L16', and '(Shell-script(bash))'. A mouse cursor is visible in the lower pane.

Figure 7: Горизонтальное разделение

# Выполнение работы



The screenshot shows the Emacs editor interface with the title bar "emacs@zhargalhaptinov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script named "hello.sh" with the following content:

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

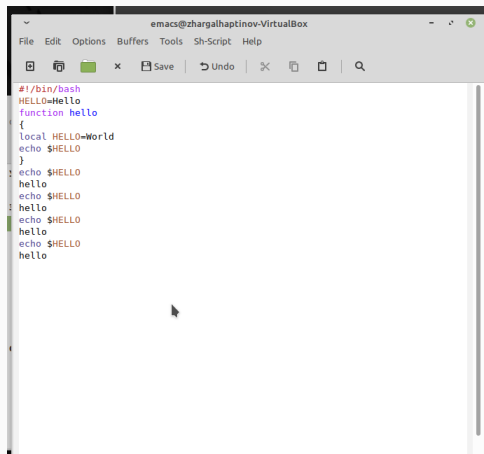
Below the script, a scrollable buffer shows the output of the script's execution:

```
 -*- hello.sh All L16 (Shell-script(bash))
Indentation setup for shell type bash
previous-line: Beginning of buffer
Mark set [5 times]
Auto-saving...done
Mark set [2 times]
mwheel-scroll: Beginning of buffer [2 times]
Auto-saving...
Undo! [2 times]
```

At the bottom of the window, a status bar shows "U: %- \*Messages\* Bot L19 (Messages)".

Figure 8: Переключение буфера

# Выполнение работы



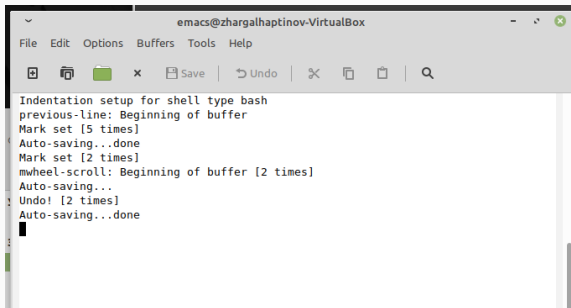
The screenshot shows the Emacs editor window titled 'emacs@zhargalhaptinov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

A mouse cursor is visible in the center of the text area.

Figure 9: Закроем буфер

# Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@zhargalhaptinov-VirtualBox". 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 the following messages:

```
Indentation setup for shell type bash
previous-line: Beginning of buffer
Mark set [5 times]
Auto-saving...done
Mark set [2 times]
mwheel-scroll: Beginning of buffer [2 times]
Auto-saving...
Undo! [2 times]
Auto-saving...done
```

A cursor is visible at the end of the last line of text.

**Figure 10:** Переключение буфера

# Выполнение работы

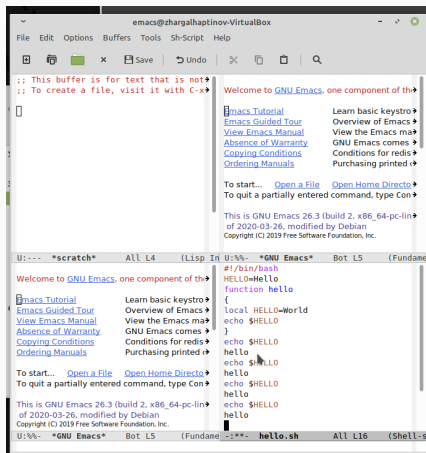
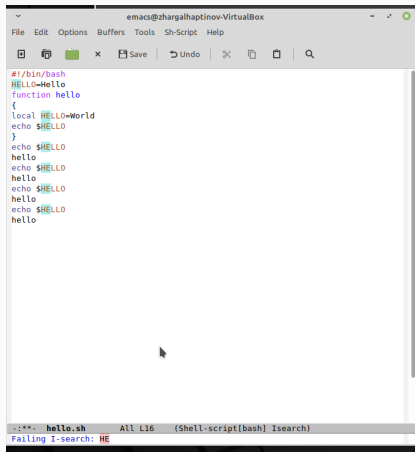


Figure 11: Четыре буфера



# Выполнение работы

A screenshot of the Emacs text editor running inside a VirtualBox. The window title is 'emacs@zhargalhaptinov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar shows icons for file operations and editing. The main text area contains a shell script with the following content:

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

The status bar at the bottom indicates the current file is 'hello.sh', line 16, column 1, in '(Shell-script[bash] Isearch)' mode. The search string 'HE' is entered, and the status 'Failing I-search: HE' is shown.

Figure 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.