

Редактор Emacs

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Цели и задачи работы

Цель лабораторной работы

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

1 Изучить возможности редактора Emacs

Процесс выполнения лабораторной работы

1. Откроем Emacs.

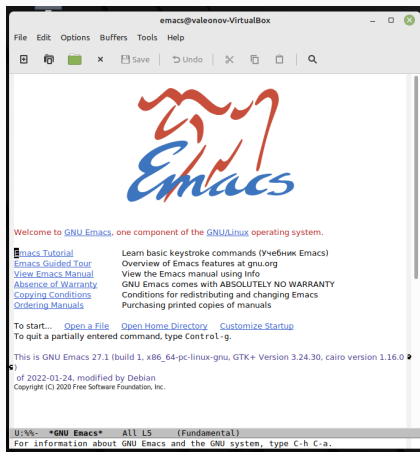
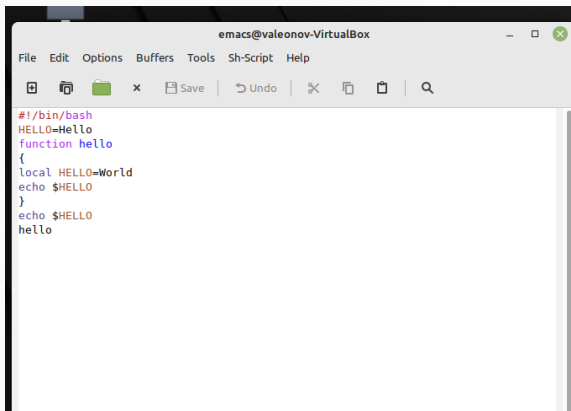


Figure 1: Запуск Emacs

Выполнение работы

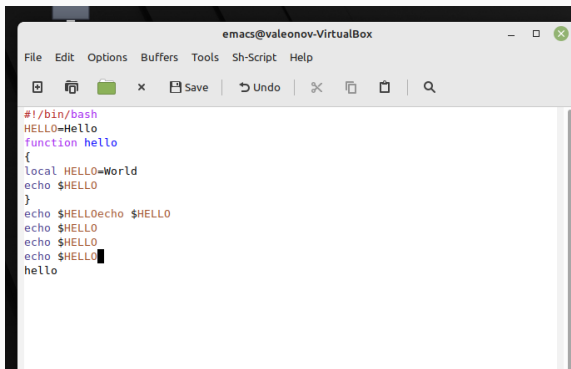


The screenshot shows the Emacs editor window titled 'emacs@valeonov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for opening files, saving, undo, redo, and search. The main text area contains the following code:

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

Figure 2: Новый файл

Выполнение работы

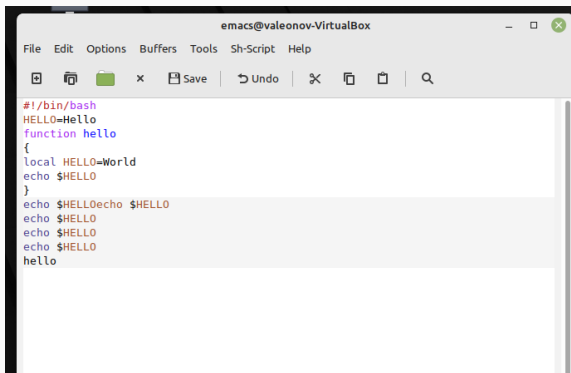


The screenshot shows the Emacs editor window titled "emacs@valeonov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for opening a file, saving, undo, redo, and search. The main text area displays a Bash script with the following content:

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

Figure 3: Операция вставка

Выполнение работы



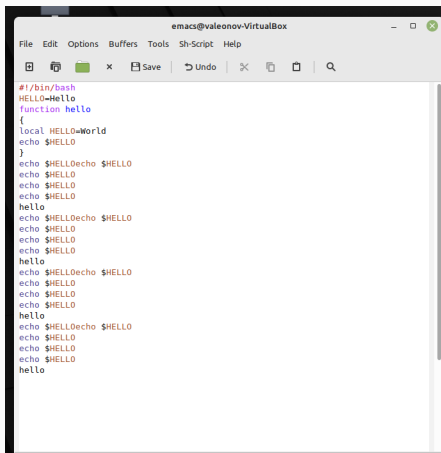
The screenshot shows an Emacs editor window titled "emacs@valeonov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for opening a file, saving, undo, redo, and search. The editor displays a Bash script with the following content:

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

A light gray rectangular highlight is applied to the lines from "echo \$HELLOecho \$HELLO" to "echo \$HELLO", indicating that this block of code is selected.

Figure 4: Выделение блока

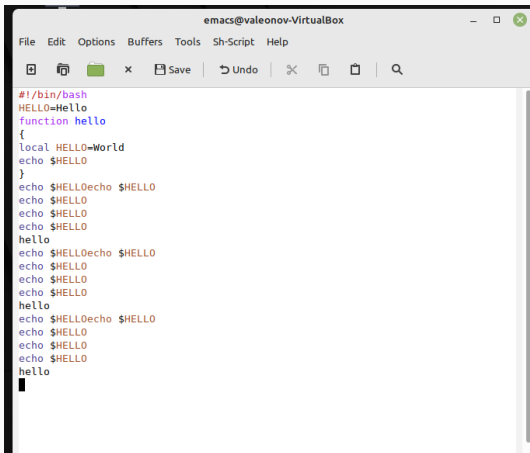
Выполнение работы

The image shows a screenshot of an Emacs editor window titled 'emacs@valeonov-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 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 $HELLOecho $HELLO
echo $HELLO
echo $HELLO
echo $HELLO
hello
echo $HELLOecho $HELLO
echo $HELLO
echo $HELLO
echo $HELLO
hello
echo $HELLOecho $HELLO
echo $HELLO
echo $HELLO
echo $HELLO
hello
echo $HELLOecho $HELLO
echo $HELLO
echo $HELLO
echo $HELLO
hello
```

Figure 5: Копирование блока

Выполнение работы



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

Figure 6: Удаление блока

Выполнение работы

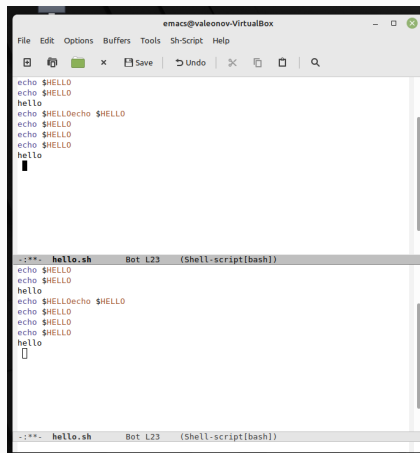
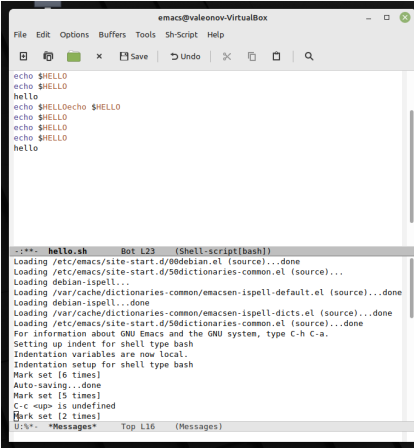


Figure 7: Горизонтальное разделение

Выполнение работы



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

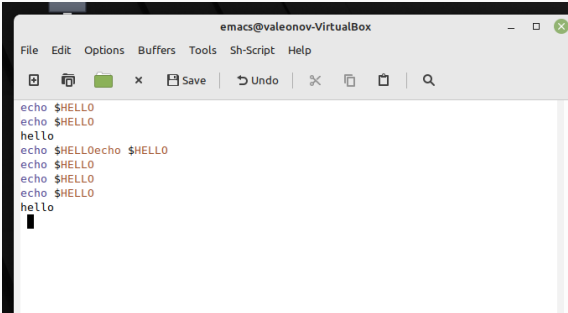
```
echo $HELLO
echo $HELLO
hello
echo $HELLOecho $HELLO
echo $HELLO
echo $HELLO
echo $HELLO
hello
```

Below the script, the status bar indicates 'Bot L23 (Shell-script(bash))'. The message buffer at the bottom shows the following output:

```
Loading /etc/emacs/site-start.d/00debian.el (source)...done
Loading /etc/emacs/site-start.d/50dictionaries-common.el (source)...
Loading debian-ispell...
Loading /var/cache/dictionaries-common/emacs-en-ispell-default.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacs-en-ispell-dicts.el (source)...done
Loading /etc/emacs/site-start.d/50dictionaries-common.el (source)...done
For information about GNU Emacs and the GNU system, type C-h C-a.
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
Mark set [6 times]
Auto-saving...done
Mark set [5 times]
C-c <up> is undefined
Mark set [2 times]
U: %- *Messages* Top L16 (Messages)
```

Figure 8: Переключение буфера

Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@valeonov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations (new, open, save, close), editing (undo, redo, cut, copy, paste), and search. The text area contains the following text:

```
echo $HELLO  
echo $HELLO  
hello  
echo $HELLOecho $HELLO  
echo $HELLO  
echo $HELLO  
echo $HELLO  
hello  
█
```

Figure 9: Закроем буфер

Выполнение работы

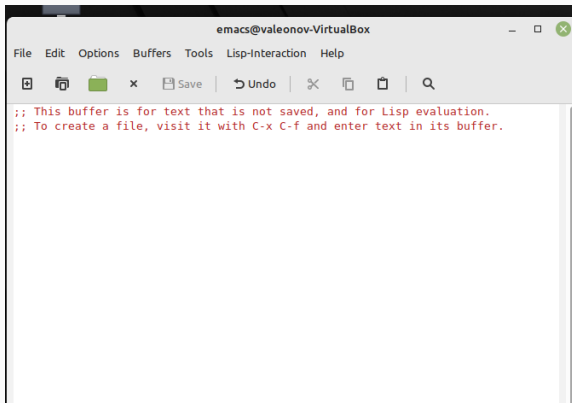
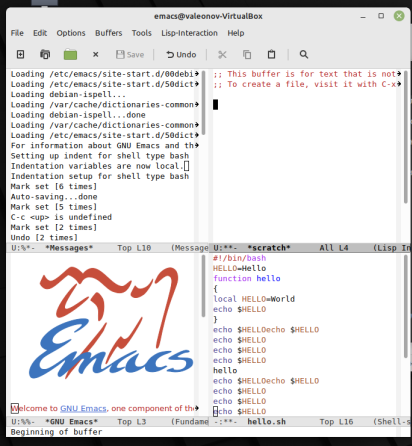


Figure 10: Переключение буфера

Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@valeonov-VirtualBox". The menu bar includes File, Edit, Options, Buffers, Tools, Lisp-Interaction, and Help. The toolbar contains icons for file operations and editing. The main text area displays the Emacs startup sequence, including loading site-start, dictionaries, and setting up indentation. A large "Emacs" logo is visible in the background. The status bar at the bottom shows four buffers: "U:*/bin/bash" (Top L10), "U:*/scratch*" (All L4), "U:*/hello.sh" (Top L16), and "U:*/GNU Emacs*" (Top L3). The "U:*/bin/bash" buffer is active and shows a shell prompt and some output.

```
Loading /etc/emacs/site-start.d/00debian...  
Loading /etc/emacs/site-start.d/50dict...  
Loading debian-ispell...  
Loading /var/cache/dictionaries-common...  
Loading debian-ispell...done  
Loading /var/cache/dictionaries-common...  
Loading /etc/emacs/site-start.d/50dict...  
For information about GNU Emacs and the  
Setting up indent for shell type bash  
Indentation variables are now local.  
Indentation setup for shell type bash  
Mark set [6 times]  
Auto-saving...done  
Mark set [5 times]  
C-c <up> is undefined  
Mark set [2 times]  
Undo [2 times]  
U:*/bin/bash  
#!/bin/bash  
HELLO=Hello  
function hello  
{  
  local HELLO=World  
  echo $HELLO  
}  
echo $HELLOecho $HELLO  
echo $HELLO  
echo $HELLO  
hello  
echo $HELLOecho $HELLO  
echo $HELLO  
echo $HELLO  
echo $HELLO  
U:*/scratch*  
U:*/hello.sh  
U:*/GNU Emacs*  
Beginning of buffer
```

Figure 11: Четыре буфера

Выполнение работы

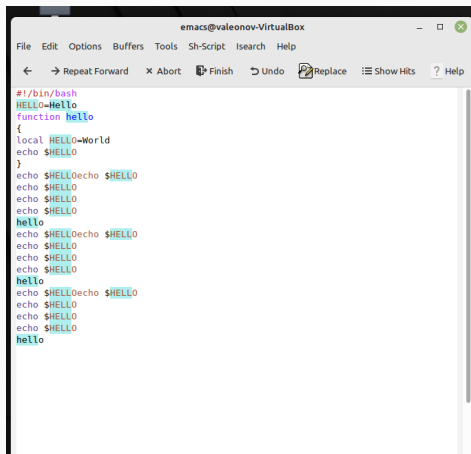


Figure 12: Режим поиска

Выводы по проделанной работе

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