

Редактор Emacs

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17 мая, 2022, Москва, Россия

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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

Выполнение работы

1. Откроем Emacs.

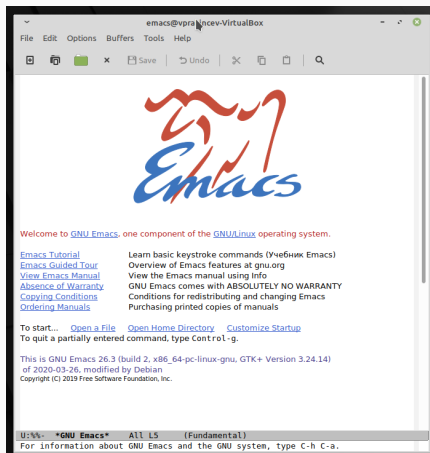
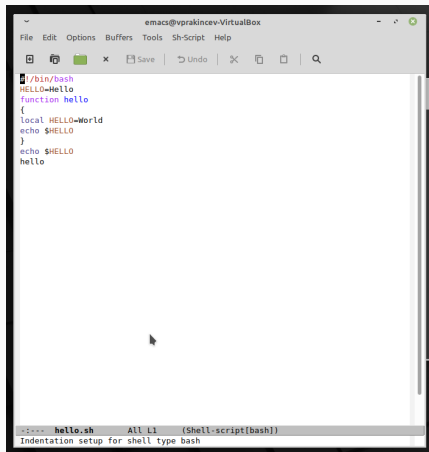


Figure 1: Запуск Emacs

Выполнение работы



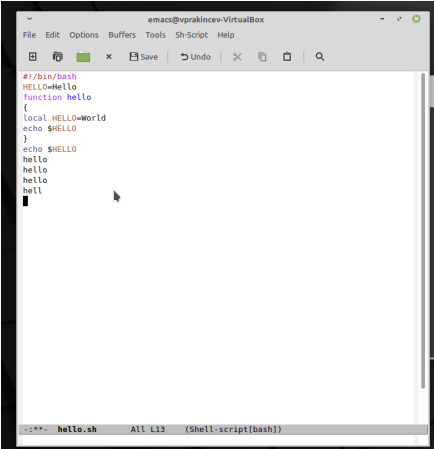
The image shows a screenshot of the Emacs text editor running inside a VirtualBox window titled 'emacs@vprakincev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays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

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

The status bar at the bottom indicates the file is named 'hello.sh', is 'All L1', and is a '(Shell-script{bash})'. A message 'Indentation setup for shell type bash' is also visible.

Figure 2: Новый файл

Выполнение работы



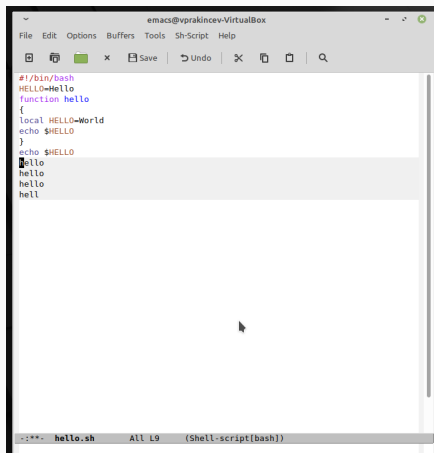
The screenshot shows an Emacs editor window titled "emacs@vprakincev-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

A mouse cursor is positioned at the end of the last line, "hell". The status bar at the bottom indicates the file is "hello.sh", the cursor is at "All L13", and the buffer is "(Shell-script[bash])".

Figure 3: Операция вставка

Выполнение работы



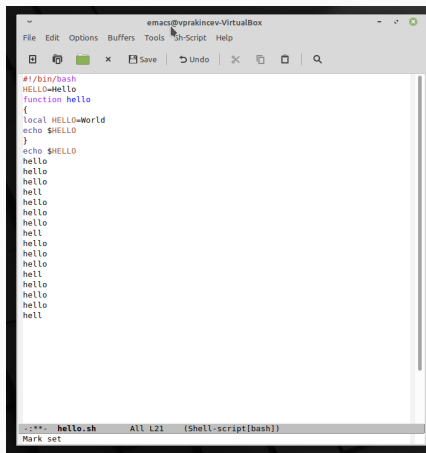
The screenshot shows an Emacs editor window titled 'emacs@vprakincev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The lines 'hello', 'hello', and 'hell' are highlighted in grey. The status bar at the bottom indicates the file is 'hello.sh', the cursor is at 'All L9', and the buffer is '(Shell-script(bash))'.

Figure 4: Выделение блока

Выполнение работы



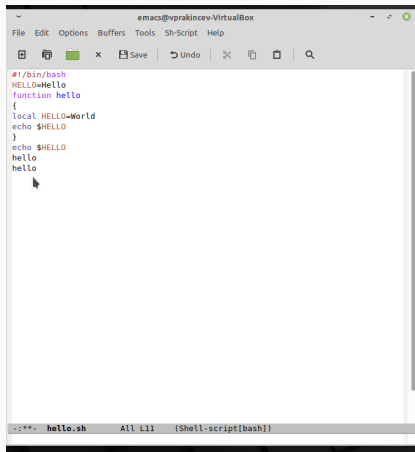
The screenshot shows an Emacs editor window titled 'emacs@vprakincev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with syntax highlighting: a shebang line, a variable assignment, a function definition, and a series of echo statements. The status bar at the bottom indicates the current buffer is 'hello.sh' at line 21, with the mode set to '(Shell-script[bash])'.

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

...*.sh hello.sh All L21 (Shell-script[bash])
Mark set

Figure 5: Копирование блока

Выполнение работы

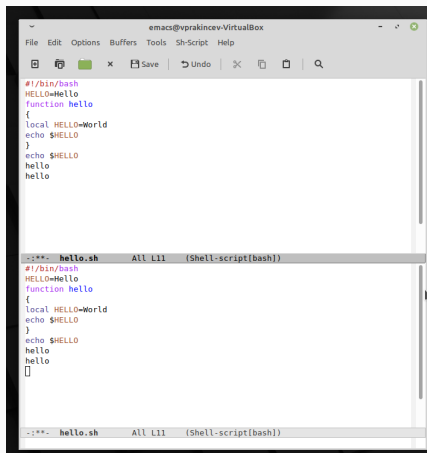


```
emacs@vprakincev-VirtualBox
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons]
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
```

status bar: -:*** hello.sh All L11 (Shell-script(bash))

Figure 6: Удаление блока

Выполнение работы



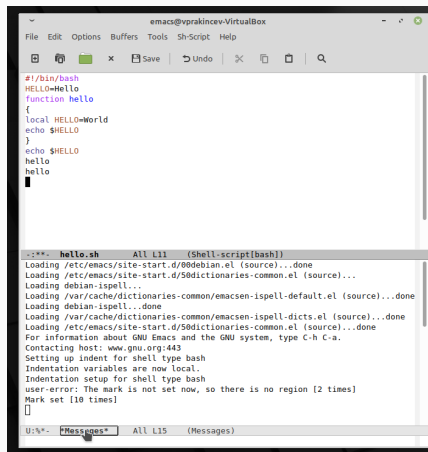
The screenshot shows the Emacs editor interface running inside a VirtualBox. The title bar reads 'emacs@vprakincev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main window is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

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

The status bar at the bottom of each pane indicates the file path and buffer name: '-:***- hello.sh All L11 (Shell-script(bash))'.

Figure 7: Горизонтальное разделение

Выполнение работы



The screenshot shows an Emacs window titled 'emacs@vprakincev-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 displays a shell script named 'hello.sh' with the following content:

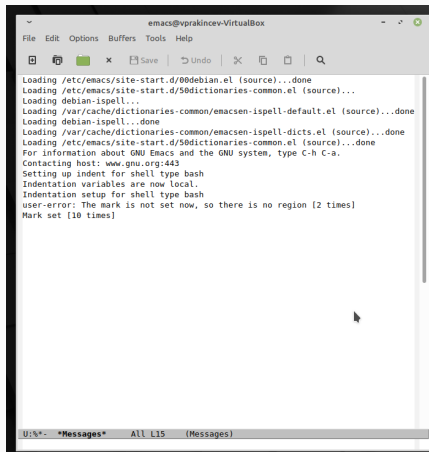
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
```

Below the script, the output of running it is shown in a buffer named 'Messages*'. The output includes loading messages for Emacs configuration files, status information about GNU Emacs, and the results of the script's execution:

```
U:~*- Messages* All L15 (Messages)
***. hello.sh All L11 (Shell-script[bash])
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.
Contacting host: www.gnu.org:443
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
user-error: The mark is not set now, so there is no region [2 times]
Mark set [10 times]
```

Figure 8: Переключение буфера

Выполнение работы



```
emacs@vprakincev-VirtualBox
File Edit Options Buffers Tools Help

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/emacsen-ispell-default.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacsen-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.
Contacting host: www.gnu.org:443
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
user-error: The mark is not set now, so there is no region [2 times]
Mark set [10 times]

U:~*Messages* All L15 (Messages)
```

Figure 9: Закроем буфер

Выполнение работы

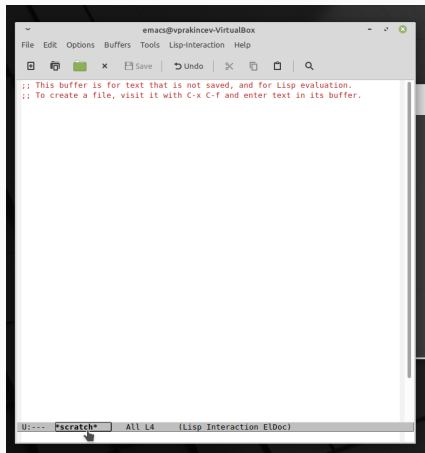


Figure 10: Переключение буфера

Выполнение работы

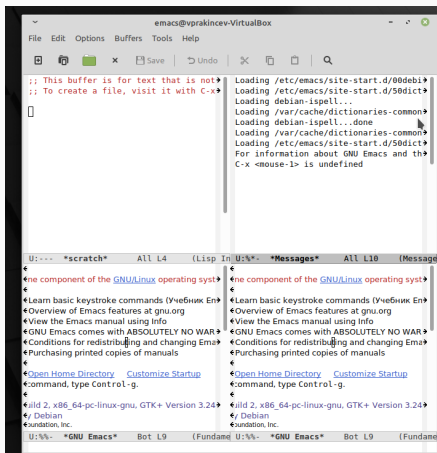


Figure 11: Четыре буфера

Выполнение работы

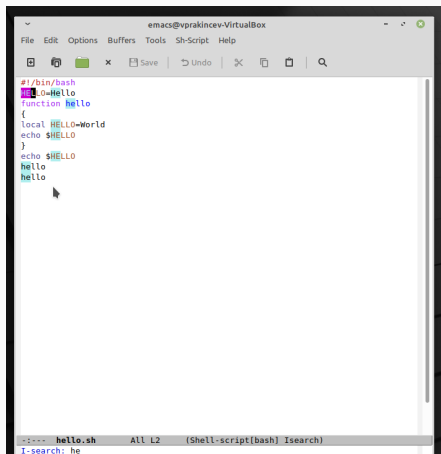


Figure 12: Режим поиска

Выводы по проделанной работе

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