

Редактор Emacs

Вакула Никита Александрович НБИ-бд-01-21¹

17 мая, 2022, Москва, Россия

¹Российский Университет Дружбы Народов

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.

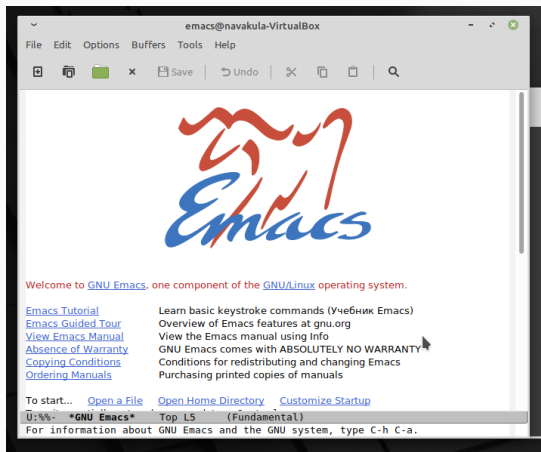
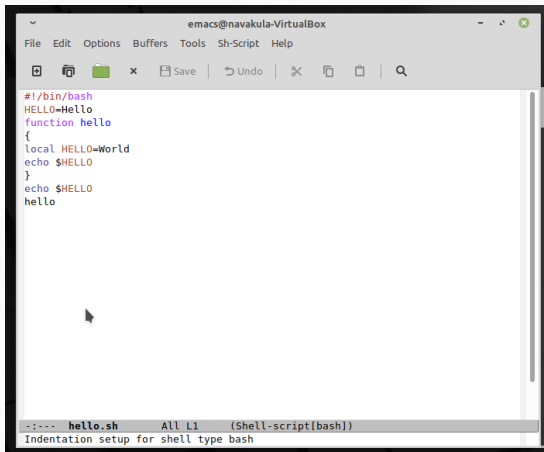


Figure 1: Запуск Emacs

Выполнение работы



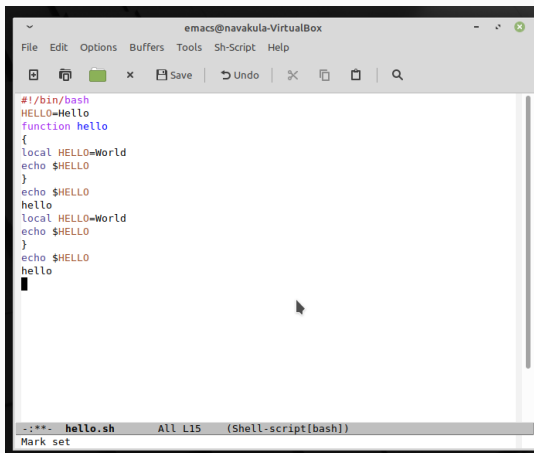
The screenshot shows the Emacs editor interface within a VirtualBox window titled 'emacs@navakula-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a new shell script 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 current file is 'hello.sh', line 11, and the shell type is 'bash'. It also shows the message 'Indentation setup for shell type bash'.

Figure 2: Новый файл

Выполнение работы



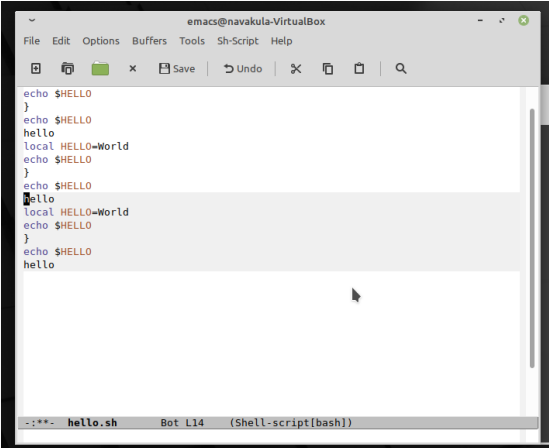
The screenshot shows the Emacs editor window titled 'emacs@navakula-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current buffer is 'hello.sh', the cursor is at 'All L15', and the mode is '(Shell-script(bash))'. The text 'Mark set' is also visible in the status bar.

Figure 3: Операция вставка

Выполнение работы



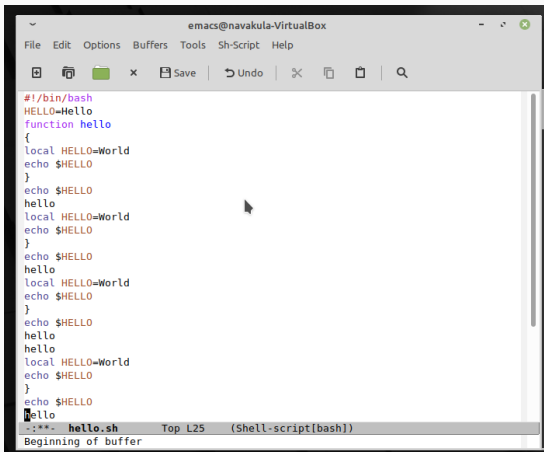
The screenshot shows an Emacs editor window titled "emacs@navakula-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

A block of code, starting from the second line (the closing brace of the first function) and ending with the final "hello" line, is highlighted in light gray. A mouse cursor is positioned over the highlighted area. The status bar at the bottom indicates the file is "hello.sh", the cursor is at "Bot L14", and the shell is "(Shell-script[bash])".

Figure 4: Выделение блока

Выполнение работы



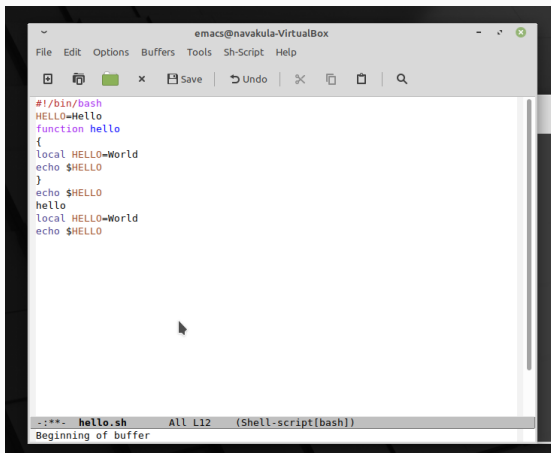
The screenshot shows the Emacs editor window titled 'emacs@navakula-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current file is 'hello.sh', the cursor is at 'Top L25', and the buffer is '(Shell-script[bash])'. The text 'Beginning of buffer' is visible at the very bottom.

Figure 5: Копирование блока

Выполнение работы



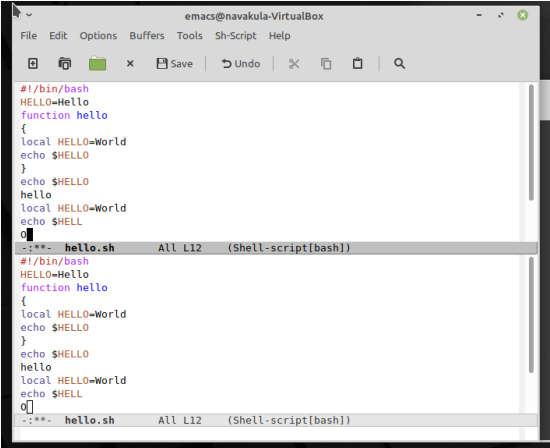
The screenshot shows the Emacs editor interface within a VirtualBox window titled 'emacs@navakula-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for opening files, saving, undo, redo, and search. The main text area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

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

The status bar at the bottom shows the command prompt '-:***- hello.sh', the cursor position 'All L12', and the buffer '(Shell-script{bash})'. Below the status bar, the text 'Beginning of buffer' is visible.

Figure 6: Удаление блока

Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@navakula-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:

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
local HELLO=World
echo $HELL
0
```

Below the script in each pane is a status bar showing: `:-*- hello.sh All L12 (Shell-script(bash))`.

Figure 7: Горизонтальное разделение

Выполнение работы

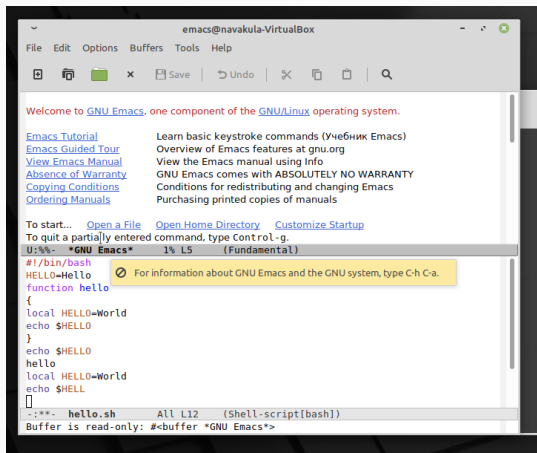
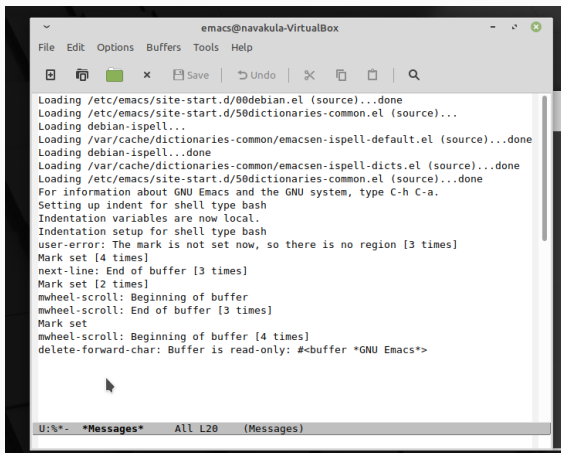


Figure 8: Переключение буфера

Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@navakula-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 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
user-error: The mark is not set now, so there is no region [3 times]
Mark set [4 times]
next-line: End of buffer [3 times]
Mark set [2 times]
mwheel-scroll: Beginning of buffer
mwheel-scroll: End of buffer [3 times]
Mark set
mwheel-scroll: Beginning of buffer [4 times]
delete-forward-char: Buffer is read-only: #<buffer *GNU Emacs*>
```

The status bar at the bottom shows "U: %- *Messages* All L20 (Messages)".

Figure 9: Закроем буфер

Выполнение работы

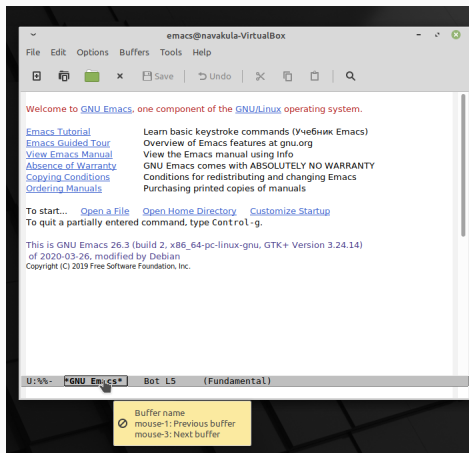


Figure 10: Переключение буфера

Выполнение работы

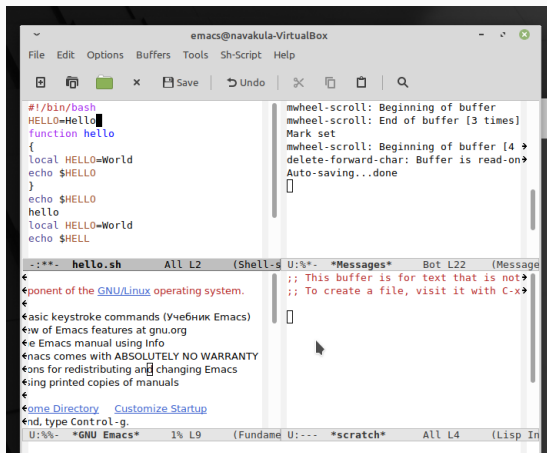


Figure 11: Четыре буфера

Выполнение работы

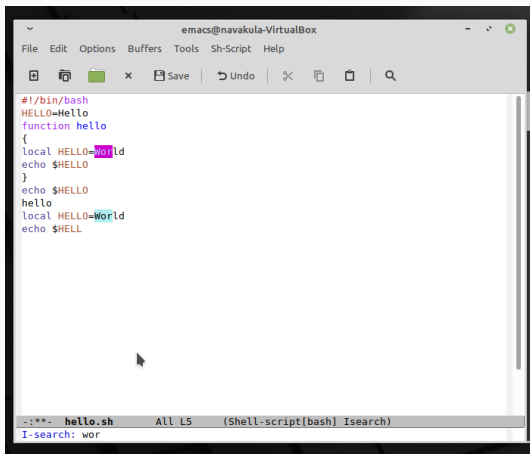


Figure 12: Режим поиска

Выводы по проделанной работе

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