

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.

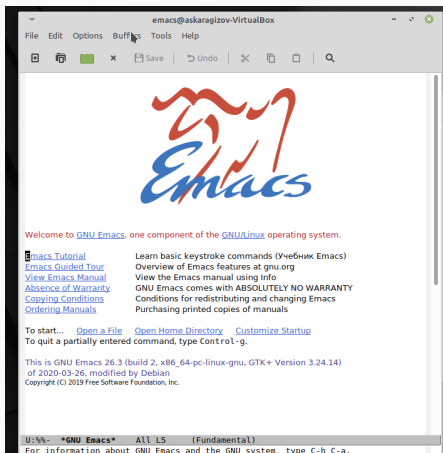
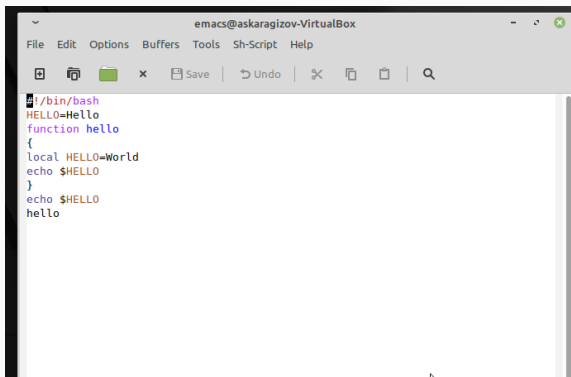


Figure 1: Запуск Emacs

Выполнение работы

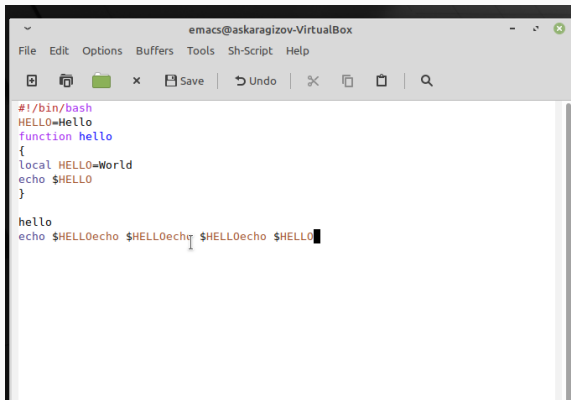


The image shows a screenshot of the Emacs editor window, titled "emacs@askaragizov-VirtualBox". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for file operations (new, open, save, undo, redo, copy, paste, search) and a search icon. The main editing 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



The screenshot shows an Emacs editor window titled "emacs@askaragizov-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 content is a shell script:

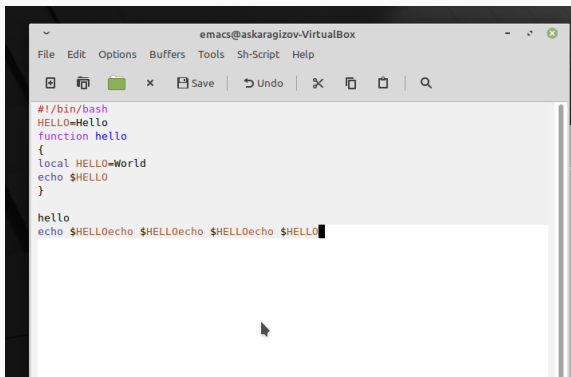
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}

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

The cursor is positioned at the end of the last line, and a small black rectangle indicates a paste operation.

Figure 3: Операция вставка

Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@askaragizov-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:

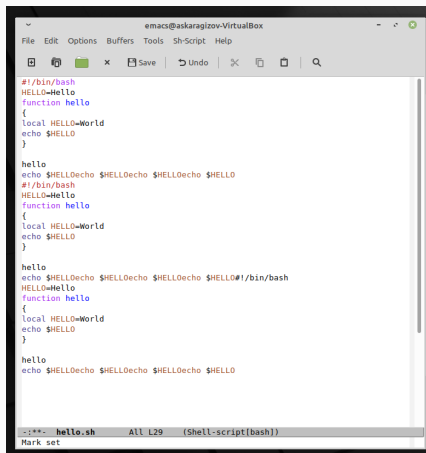
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}

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

The cursor is positioned at the end of the last line of the script. The text is color-coded: red for the shebang, blue for the function name, and black for the rest of the code.

Figure 4: Выделение блока

Выполнение работы



The screenshot shows an Emacs editor window titled 'emacs@askaragizov-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 a function 'hello' that echoes 'HELLO' and 'World'. The script is being edited, and the status bar at the bottom indicates the current position is line 29 of 'hello.sh'.

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

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

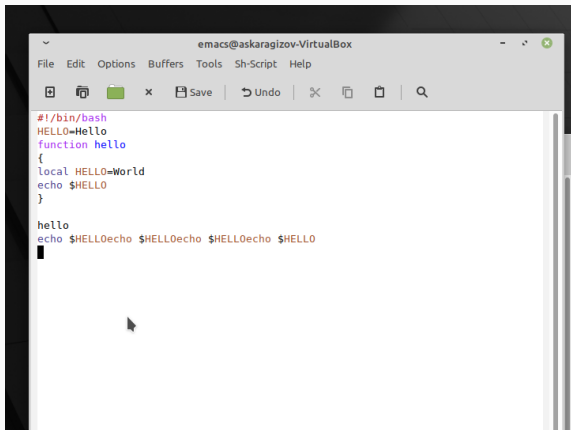
hello
echo $HELLOecho $HELLOecho $HELLOecho $HELLO#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}

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

-*- hello.sh All (29) (Shell-script(bash))
Mark set

Figure 5: Копирование блока

Выполнение работы



```
emacs@askaragizov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help

+ [ ] x Save | Undo | [ ] [ ] [ ]

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

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

Figure 6: Удаление блока

Выполнение работы

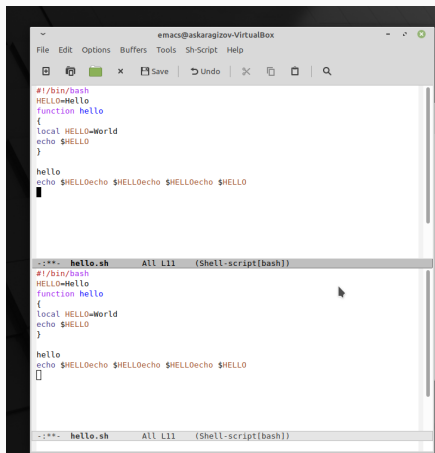
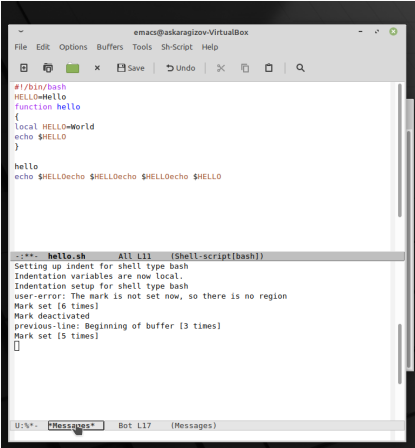


Figure 7: Горизонтальное разделение

Выполнение работы



The screenshot shows the Emacs editor interface. The main window displays a shell script named `hello.sh` with the following content:

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

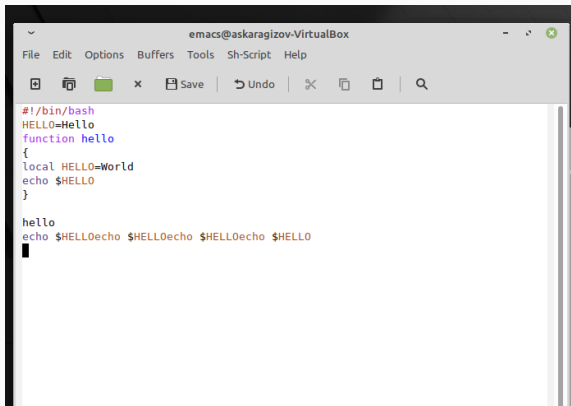
hello
echo $HELLOecho $HELLOecho $HELLOecho $HELLO
```

Below the script, the output of the script's execution is shown in the Messages buffer, which is currently selected in the bottom panel. The output text is:

```
***- hello.sh All L11 (Shell-script[bash])
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
Mark set [6 times]
Mark deactivated
previous-line: Beginning of buffer [3 times]
Mark set [5 times]
```

Figure 8: Переключение буфера

Выполнение работы

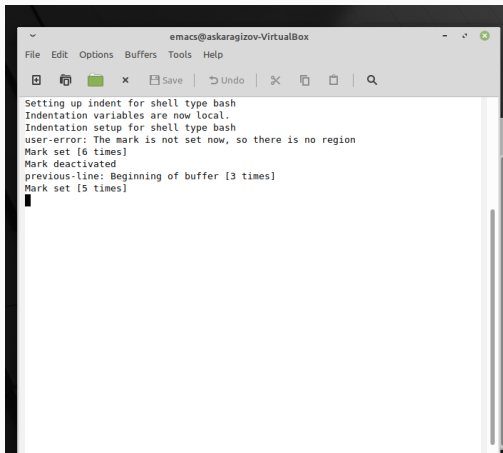
A screenshot of an Emacs editor window titled 'emacs@askaragizov-VirtualBox'. The window has a menu bar with 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. Below the menu bar is a toolbar with icons for file operations and editing. The main text area contains a Bash script with the following content:

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

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

The script defines a function 'hello' that prints 'World' and then calls it, followed by four 'echo' commands that print the value of 'HELLO' (which is 'Hello'). The cursor is at the end of the last line.

Figure 9: Закроем буфер



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

```
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
Mark set [6 times]
Mark deactivated
previous-line: Beginning of buffer [3 times]
Mark set [5 times]
```

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

Figure 10: Переключение буфера

Выполнение работы

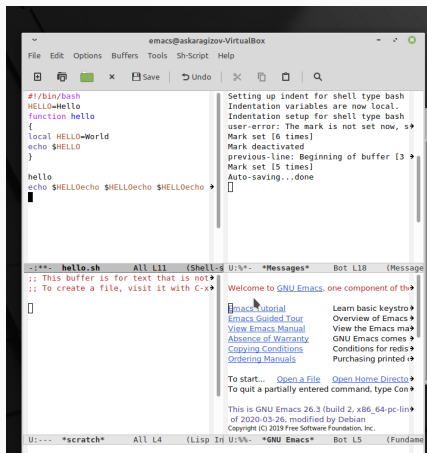


Figure 11: Четыре буфера

Выполнение работы

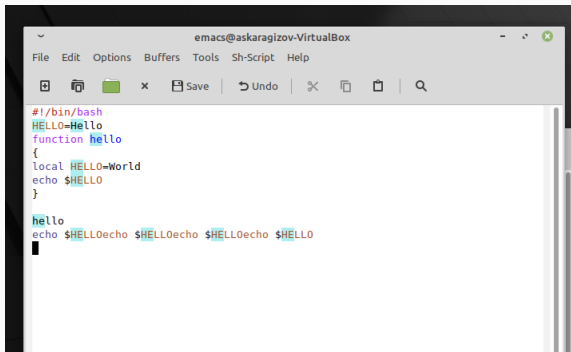


Figure 12: Режим поиска

Выводы по проделанной работе

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