

Редактор Emacs

Старшинов Игорь НБИ-01-21¹

3 апреля, 2023, 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.

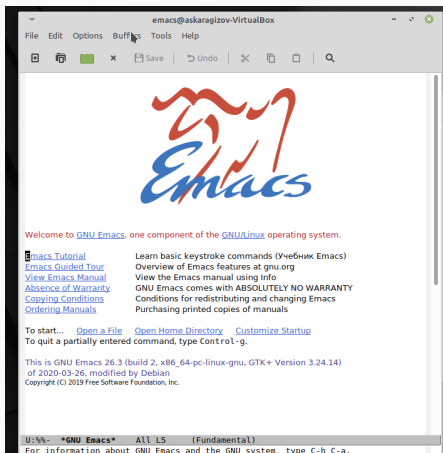
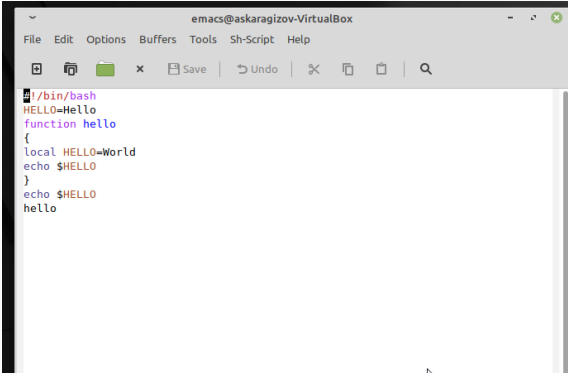


Рис. 1: Запуск Emacs

Выполнение работы

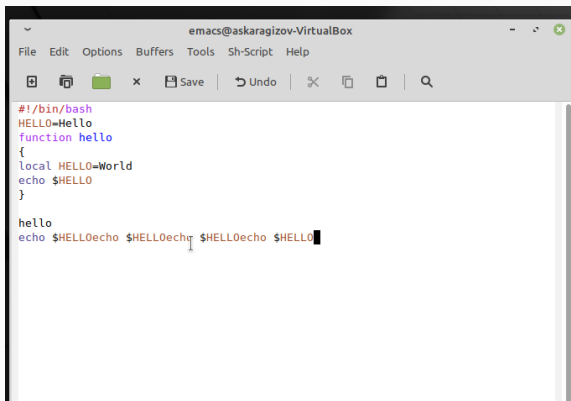


The image shows a screenshot of the Emacs text editor running inside a VirtualBox environment. The window title is "emacs@askaragizov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for opening files, saving, undo, redo, and search. The main text area displays a new file with the following shell script code:

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

Рис. 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 opening a file, saving, undo, redo, and search. The editor content is a Bash script:

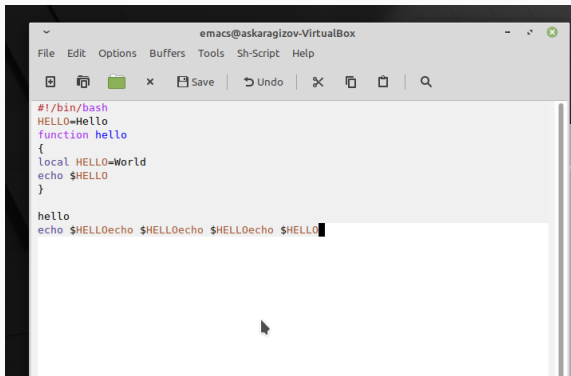
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}

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

The cursor is positioned at the end of the last line, indicating a paste operation.

Рис. 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 Bash script:

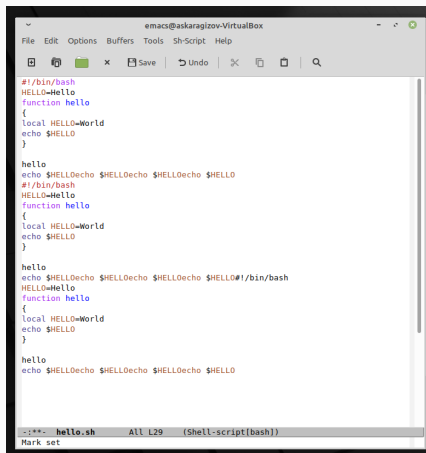
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}

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

The cursor is positioned at the end of the last line of the script.

Рис. 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 the following content:

```
#!/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
}

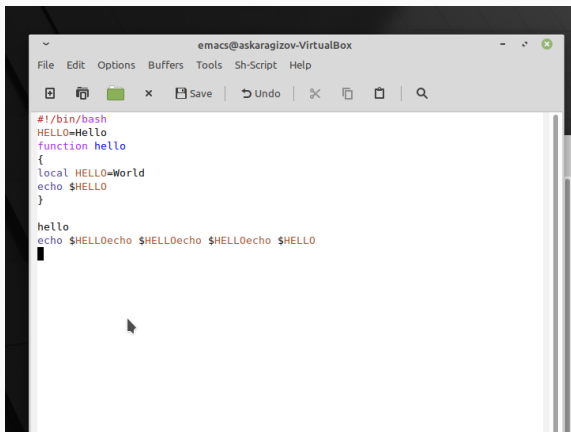
hello
echo $HELLOecho $HELLOecho $HELLOecho $HELLO#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}

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

The status bar at the bottom indicates the current file is "hello.sh", the cursor is at line 29, and the buffer is "(Shell-script(bash))".

Рис. 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
```

Рис. 6: Удаление блока

Выполнение работы

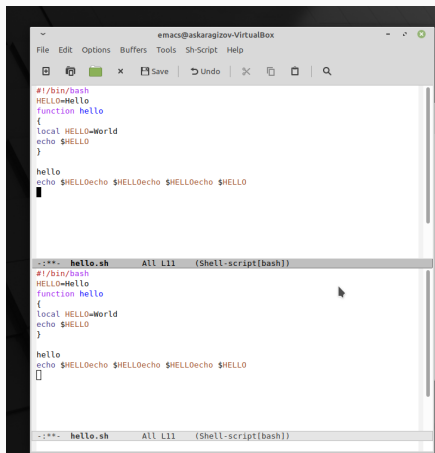
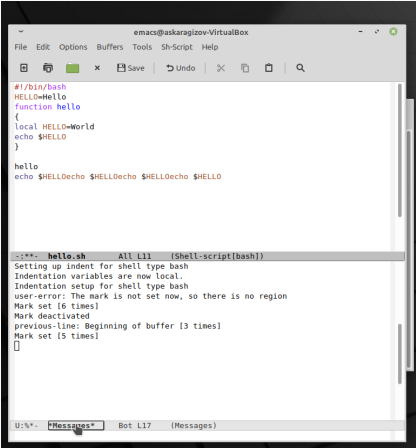


Рис. 7: Горизонтальное разделение

Выполнение работы



The screenshot shows the Emacs editor interface within a VirtualBox window titled 'emacs@askaragizov-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 a shell script:

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

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

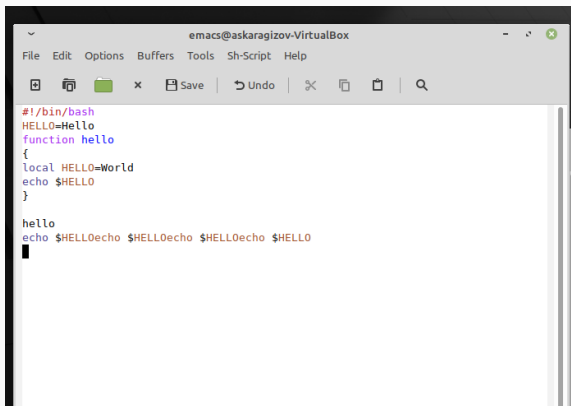
Below the script, a message buffer is displayed with the following text:

```
***- 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]
```

At the bottom of the window, the status bar shows 'U: %*-' and a button labeled 'Messages*'. A mouse cursor is pointing at the 'Messages*' button.

Рис. 8: Переключение буфера

Выполнение работы

The image shows 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 sets a local variable 'HELLO' to 'World' and echoes its value. It then calls the 'hello' function and echoes the value of 'HELLO' four times. The cursor is positioned at the end of the last line of the script.

Рис. 9: Закроем буфер

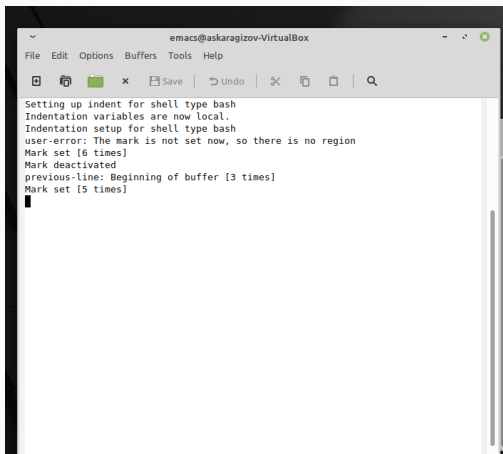


Рис. 10: Переключение буфера

Выполнение работы

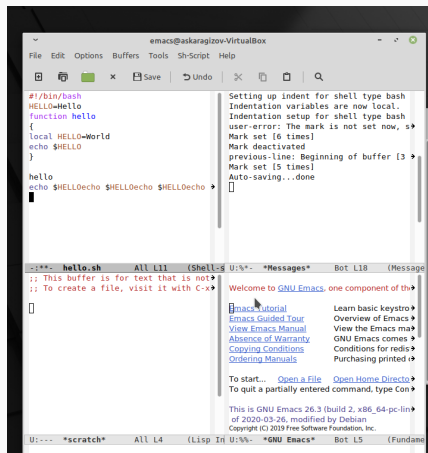
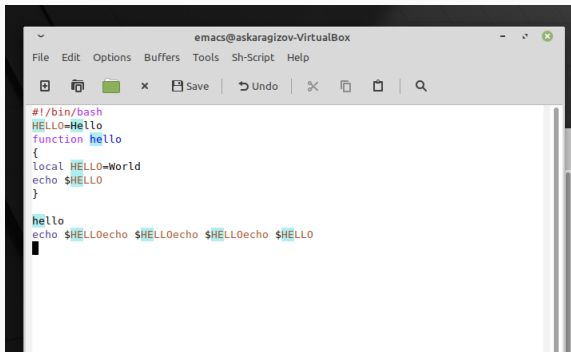


Рис. 11: Четыре буфера

Выполнение работы



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

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

Рис. 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.