

Редактор Emacs

Мартынов Николай Алексеевич НБИбд-02-21¹

18 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.

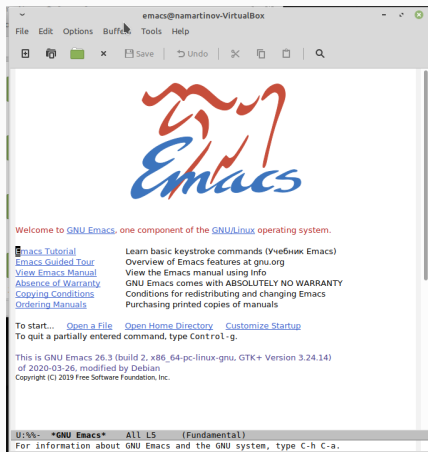
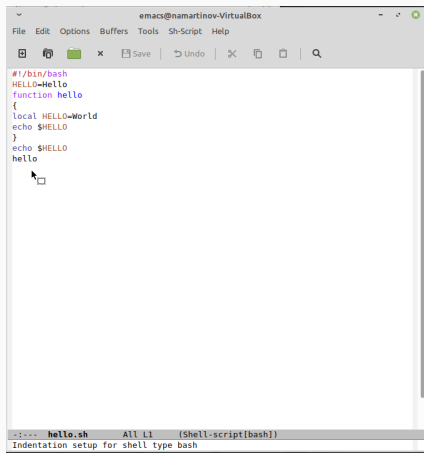


Figure 1: Запуск Emacs

Выполнение работы



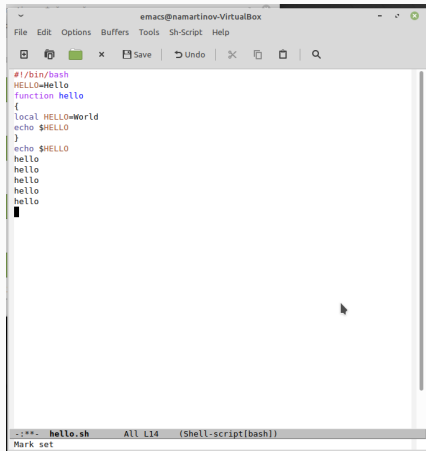
The image shows a screenshot of an Emacs editor window titled 'emacs@namartinov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area contains the following code:

```
#!/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', the cursor is at line 11, and the buffer is '{Shell-script[bash]}'. It also shows 'Indentation setup for shell type bash'.

Figure 2: Новый файл

Выполнение работы



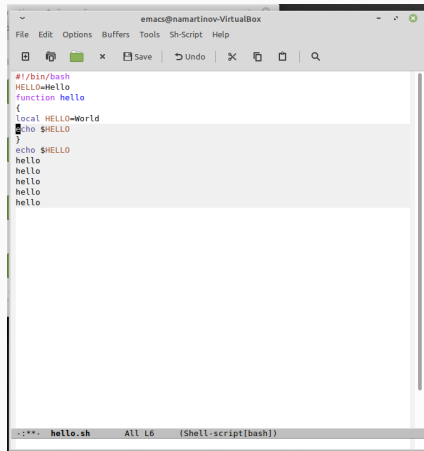
The screenshot shows an Emacs editor window titled 'emacs@namartinov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The cursor is positioned at the end of the last 'hello' line. The status bar at the bottom indicates the current file is 'hello.sh', the cursor is at line 14, and the buffer is '(Shell-script(bash))'. It also shows 'Mark set'.

Figure 3: Операция вставка

Выполнение работы



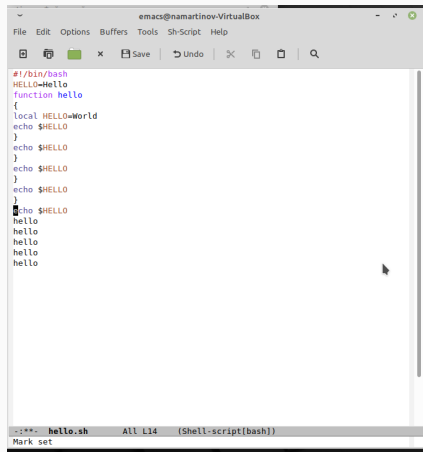
The image shows a screenshot of an Emacs editor window titled "emacs@namartinov-VirtualBox". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for file operations. The main text area contains a shell script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

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

A light gray rectangular highlight is placed over the function definition and its first call, covering the lines from "function hello" to "echo \$HELLO". The status bar at the bottom of the window displays "hello.sh", "All L6", and "(Shell-script[bash])".

Figure 4: Выделение блока

Выполнение работы



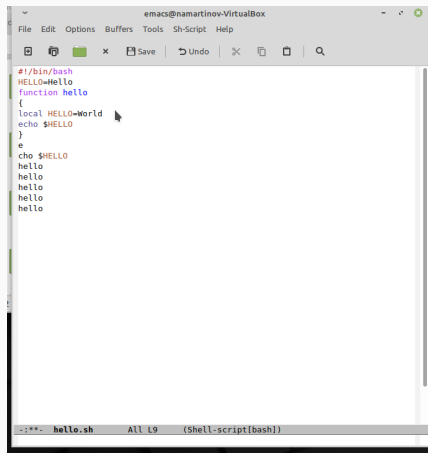
```
emacs@namartinov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help

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

.:*- hello.sh All L14 (Shell-script[bash])
Mark set
```

Figure 5: Копирование блока

Выполнение работы



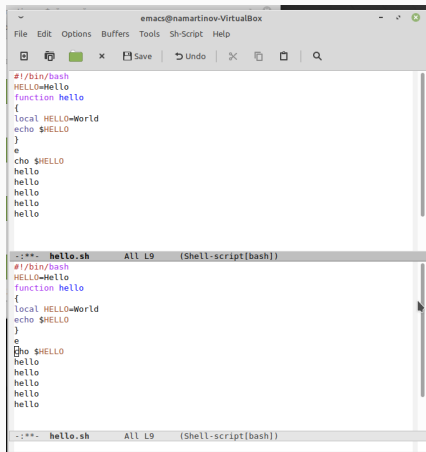
```
emacs@namartinov-VirtualBox
File Edit Options Buffers Tools Sh-Script Help

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

hello.sh All L9 (Shell-script{bash})

Figure 6: Удаление блока

Выполнение работы



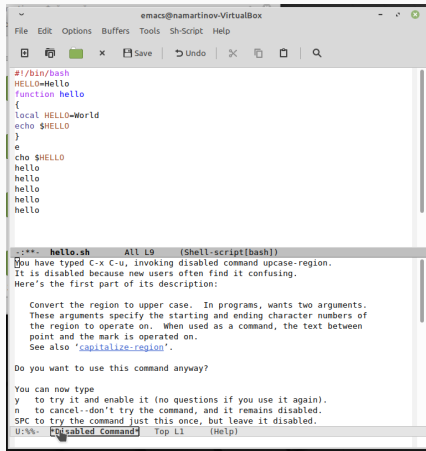
The screenshot shows the Emacs editor interface with a window titled 'emacs@namartinov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main editing area is split horizontally into two panes. The top pane contains 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
hello
hello
```

The bottom pane shows the output of the script, which is the same content as the top pane, indicating that the script has been executed. The status bar at the bottom of the window displays 'hello.sh', 'All L9', and '(Shell-script(bash))'.

Figure 7: Горизонтальное разделение

Выполнение работы



The screenshot shows an Emacs editor window titled 'emacs@namartinov-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 named 'hello.sh' with the following content:

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

Below the script, a help window for the 'hello.sh' command is displayed. It contains the following text:

```
*** hello.sh All L9 (Shell-script(bash))
You have typed C-x C-u, invoking disabled command upcase-region.
It is disabled because new users often find it confusing.
Here's the first part of its description:

Convert the region to upper case. In programs, wants two arguments.
These arguments specify the starting and ending character numbers of
the region to operate on. When used as a command, the text between
point and the mark is operated on.
See also 'capitalize-region'.

Do you want to use this command anyway?

You can now type
y to try it and enable it (no questions if you use it again).
n to cancel--don't try the command, and it remains disabled.
SPC to try the command just this once, but leave it disabled.
U:%% Disabled Command Top Li (Help)
```

Figure 8: Переключение буфера

Выполнение работы

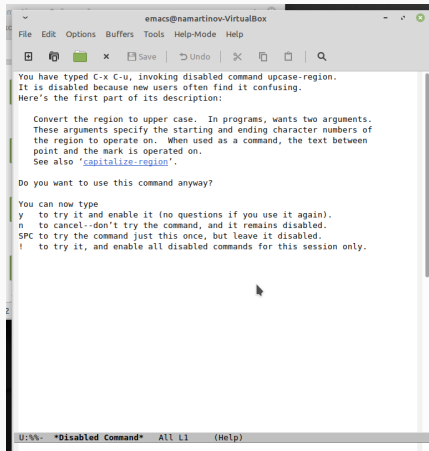
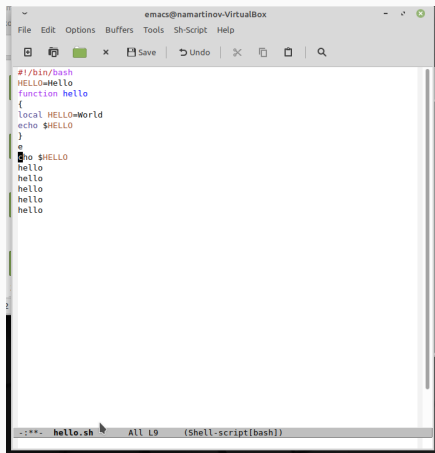


Figure 9: Закроем буфер

Выполнение работы



The screenshot shows an Emacs editor window titled 'emacs@namartinov-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
hello
hello
hello
```

The status bar at the bottom indicates the current buffer is 'hello.sh', the cursor is at 'All L9', and the shell is '(Shell-script(bash))'.

Figure 10: Переключение буфера

Выполнение работы

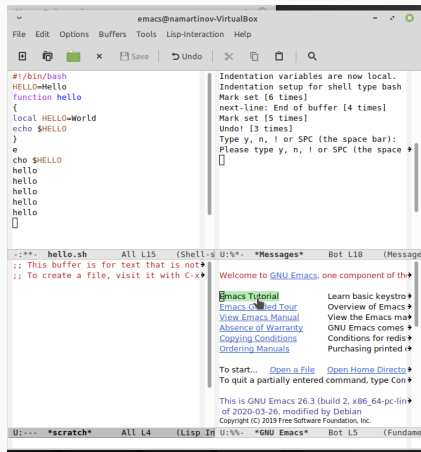
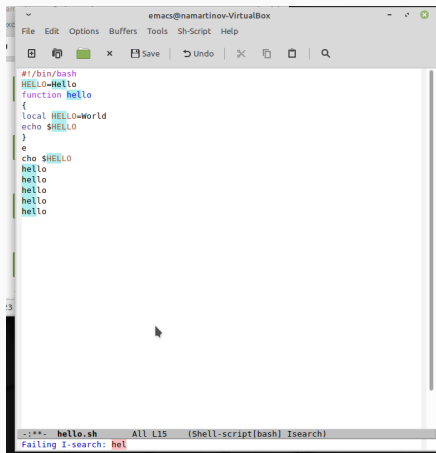


Figure 11: Четыре буфера

Выполнение работы



The image shows a screenshot of the Emacs text editor running inside a VirtualBox environment. The window title is 'emacs@namartinov-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
}
e
cho $HELLO
hello
hello
hello
hello
hello
```

The status bar at the bottom indicates the current file is 'hello.sh', line 15, and the search term is 'hel'. The status bar also shows '(Shell-script[bash] Isearch)'.

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.