

Редактор Emacs

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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.

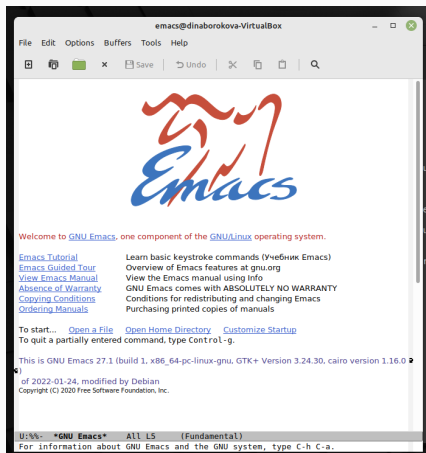
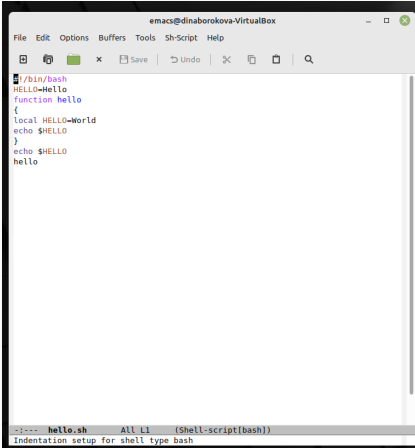


Figure 1: Запуск Emacs

Выполнение работы



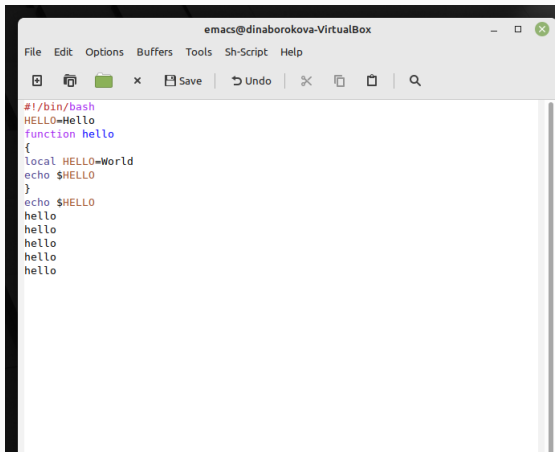
The screenshot shows the Emacs editor window titled 'emacs@dinaborokova-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area contains the following code:

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

The status bar at the bottom indicates the file is 'hello.sh', line 11, column 1, in a bash shell script. It also shows 'Indentation setup for shell type bash'.

Figure 2: Новый файл

Выполнение работы



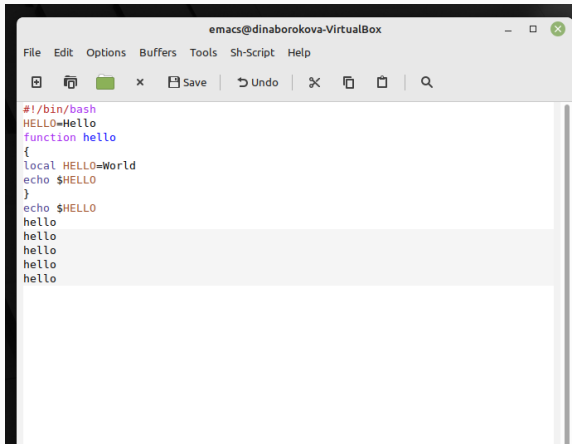
The image shows a screenshot of an Emacs editor window titled "emacs@dinaborokova-VirtualBox". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for file operations and editing. The main text area contains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

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

The script defines a function named "hello" that sets a local variable "HELLO" to "World" and prints its value. It then prints the value of the global variable "HELLO" (which is "Hello") and calls the "hello" function five times, each time printing "World".

Figure 3: Операция вставка

Выполнение работы



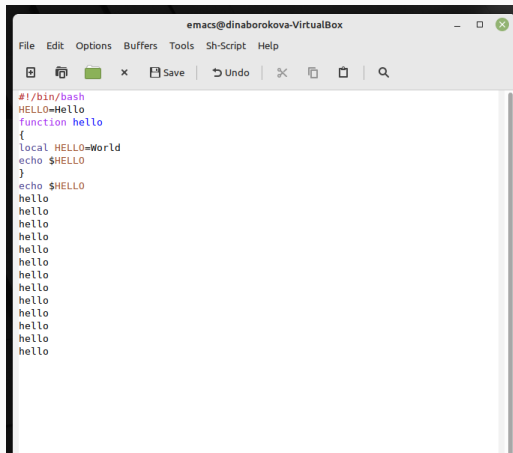
The screenshot shows an Emacs editor window titled "emacs@dinaborokova-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The last five lines of the script, which are the function calls "hello", are highlighted with a light gray background, indicating a block selection.

Figure 4: Выделение блока

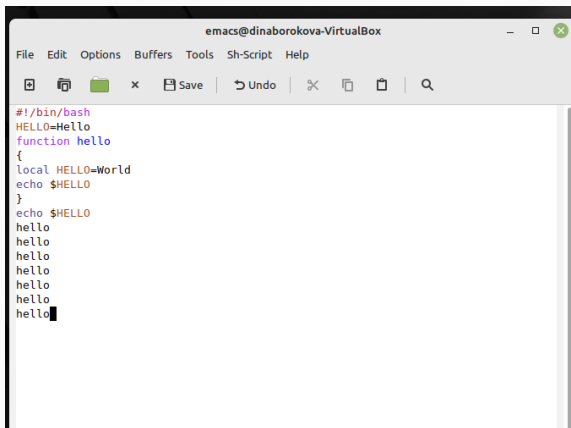
Выполнение работы



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

Figure 5: Копирование блока

Выполнение работы

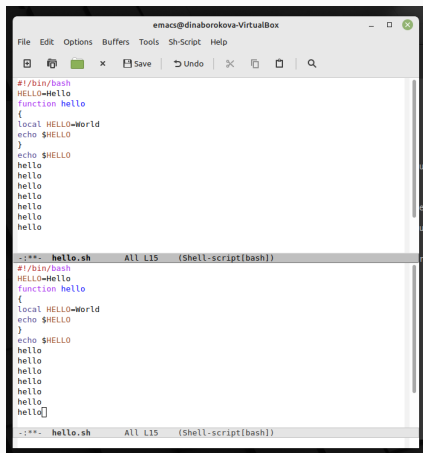


The screenshot shows an Emacs editor window titled "emacs@dinaborokova-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a bash script and its output:

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

Figure 6: Удаление блока

Выполнение работы



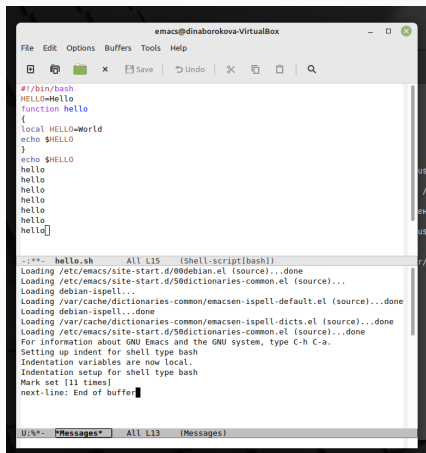
The screenshot shows the Emacs editor interface running inside a VirtualBox. The title bar reads 'emacs@dinaborokova-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main window is divided horizontally into two panes. Both panes display the same shell script:

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

Below the script in each pane, a status line indicates the current buffer and line: `-:***- hello.sh All L15 (Shell-script(bash))`.

Figure 7: Горизонтальное разделение

Выполнение работы



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

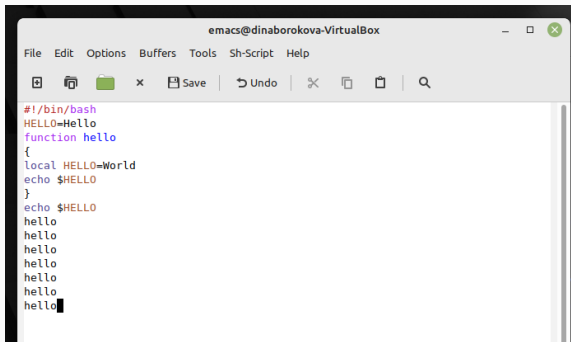
Below the script, the output of the script is shown, indicating it was executed successfully. The output includes messages about loading Emacs site-start files and setting up the shell environment.

```
..*- hello.sh All L15 (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-ispell-default.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacs-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
Mark set [11 times]
next-line: End of buffer
```

At the bottom of the window, a status bar shows 'U:~* PMessages* All L13 (Messages)'.

Figure 8: Переключение буфера

Выполнение работы

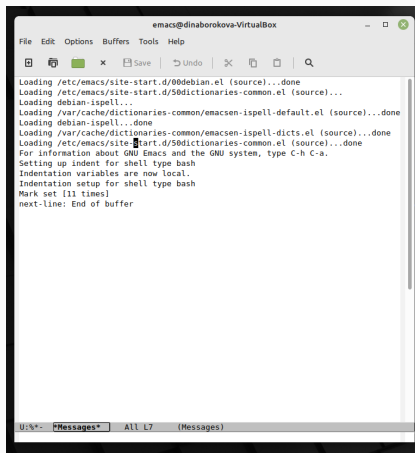


The screenshot shows an Emacs editor window titled 'emacs@dinaborokova-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

Figure 9: Закроем буфер

Выполнение работы



```
emacs@dinaborokova-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/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
Mark set [11 times]
next-line: End of buffer

U: %*~ Messages* All L7 (Messages)
```

Figure 10: Переключение буфера

Выполнение работы

The screenshot shows the Emacs editor interface with four buffers visible at the bottom. The top buffer, titled "Messages", displays the Emacs startup sequence, including loading site-start.d files, dictionaries, and setting up indentation. The second buffer, titled "scratch", contains a shell script that prints "HELLO=Hello" and then "hello" multiple times. The third buffer, titled "GNU Emacs", shows the Emacs logo and the text "Welcome to GNU Emacs, one component of the". The fourth buffer, titled "GNU Emacs", shows the text "hello.sh".

```
emac@dinaborokova-VirtualBox
File Edit Options Buffers Tools Help

Loading /etc/emacs/site-start.d/00debian...
Loading /etc/emacs/site-start.d/50dict...
Loading debian-ispell...
Loading /var/cache/dictionaries-common...
Loading debian-ispell...done
Loading /var/cache/dictionaries-common...
Loading /etc/emacs/site-start.d/50dict...
For information about GNU Emacs and the GNU system, see http://www.gnu.org.
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
Mark set [11 times]
next-line: End of buffer
Auto-saving...done
Beginning of buffer [4 times]

U:~*Messages* All L16 (Message U:---*scratch* All L4 (Lisp Interp

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

Welcome to GNU Emacs, one component of the GNU system.

U:~*GNU Emacs* Top L3 (Fundamental --*hello.sh All L15 (Shell-Interp
```

Figure 11: Четыре буфера

Выполнение работы

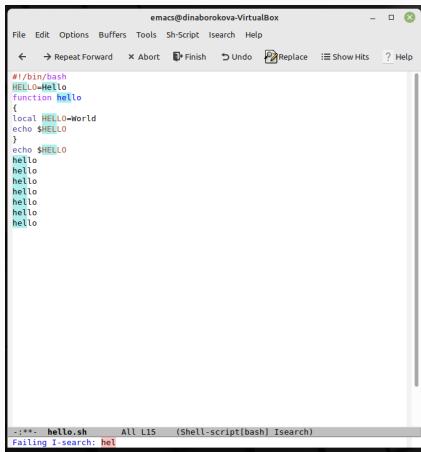


Figure 12: Режим поиска

Выводы по проделанной работе

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