

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.

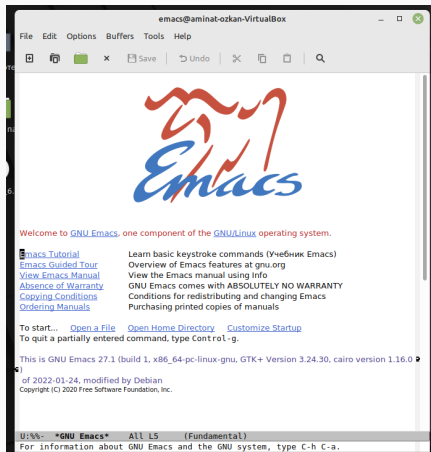
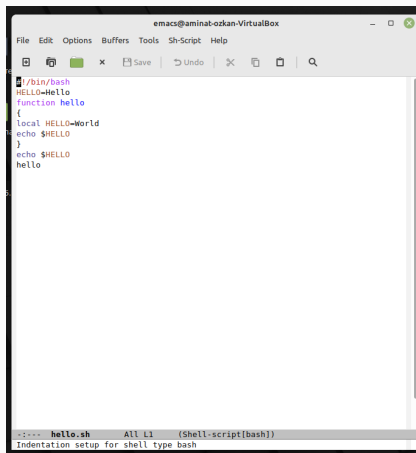


Figure 1: Запуск Emacs

Выполнение работы



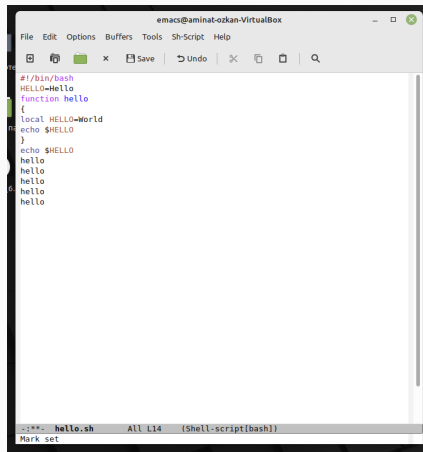
The screenshot shows the Emacs editor interface running inside a VirtualBox. The title bar reads 'emacs@aminat-ozkan-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and search. The main text area 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, column 1, in a shell script buffer. It also shows 'Indentation setup for shell type bash'.

Figure 2: Новый файл

Выполнение работы



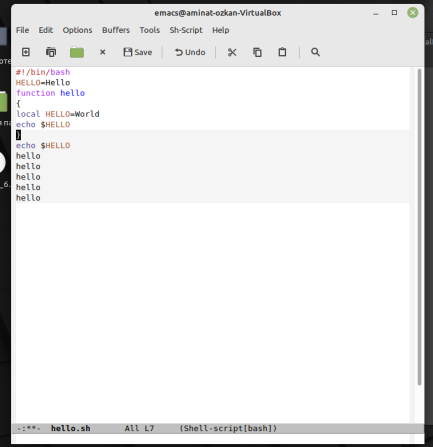
The screenshot shows an Emacs editor window titled "emacs@aminat-ozkan-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

```
#!/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 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



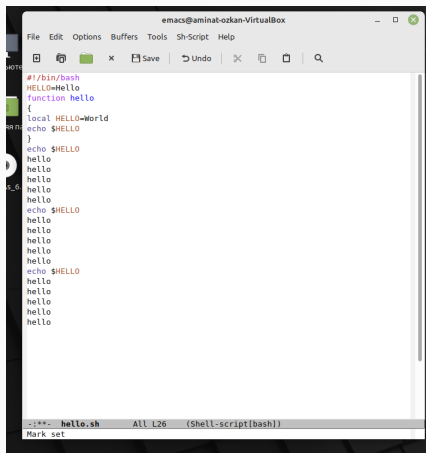
The screenshot shows an Emacs editor window titled "emacs@aminat-ozkan-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The editor displays a shell script with the following content:

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

A rectangular block of the script is highlighted in light gray, covering the lines from the function definition to the final "hello" output. The status bar at the bottom indicates the file is "hello.sh", the cursor is at "All L7", and the mode is "(Shell-script)[bash]".

Figure 4: Выделение блока

Выполнение работы



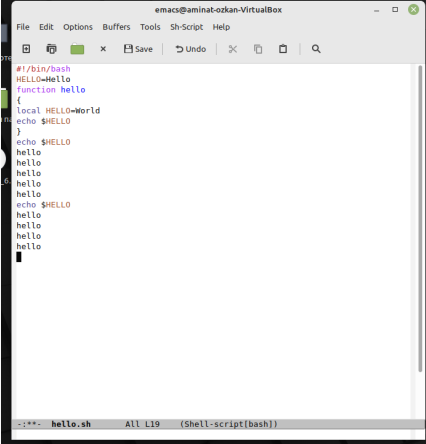
```
emacs@aminat-ozkan-VirtualBox
File Edit Options Buffers Tools Sh-Script Help

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

--:***- hello.sh All L26 (Shell-script(bash))
Mark set
```

Figure 5: Копирование блока

Выполнение работы



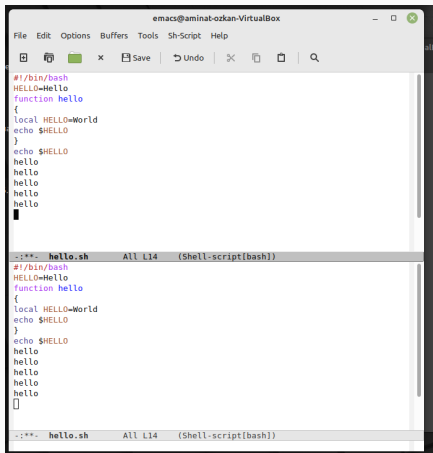
The screenshot shows an Emacs editor window titled "emacs@aminat-ozkan-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current file is "hello.sh", the cursor is at line 19, and the buffer is "(Shell-script(bash))".

Figure 6: Удаление блока

Выполнение работы



The screenshot shows the Emacs editor interface with a window titled 'emacs@aminat-ozkan-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 a shell script:

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

Below the main text area, there is a horizontal split window showing the execution of the script. The top part of the split window shows the command prompt and the script name:

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

The bottom part of the split window shows the output of the script:

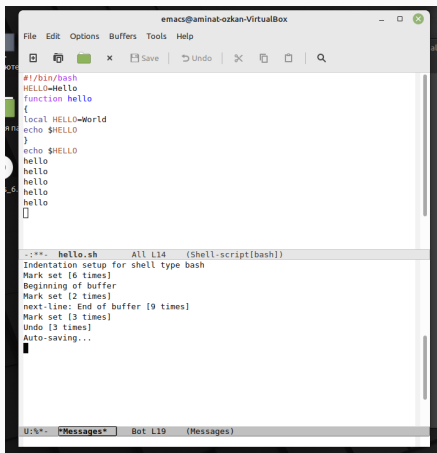
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
hello
hello
hello
```

The bottom part of the split window shows the command prompt and the script name again:

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

Figure 7: Горизонтальное разделение

Выполнение работы



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

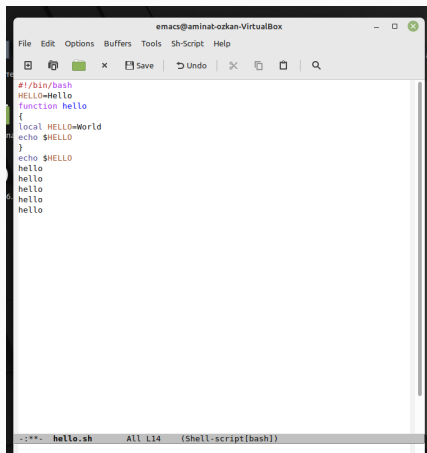
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
hello
hello
hello
[]
```

Below the script, the output of the script is displayed in a separate buffer, indicated by the status bar at the bottom: 'U:%*- *Messages* Bot L19 (Messages)'. The output text is:

```
-.:*. hello.sh All L14 (Shell-script[bash])
Indentation setup for shell type bash
Mark set [6 times]
Beginning of buffer
Mark set [2 times]
next-line: End of buffer [9 times]
Mark set [3 times]
Undo [3 times]
Auto-saving...
```

Figure 8: Переключение буфера

Выполнение работы



The image shows a screenshot of an Emacs editor window titled "emacs@aminat-ozkan-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 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 of the window displays ".*- hello.sh All L14 (Shell-script[bash])".

Figure 9: Закроем буфер

Выполнение работы

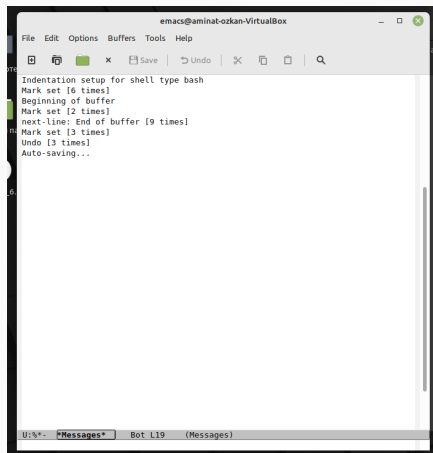


Figure 10: Переключение буфера

Выполнение работы

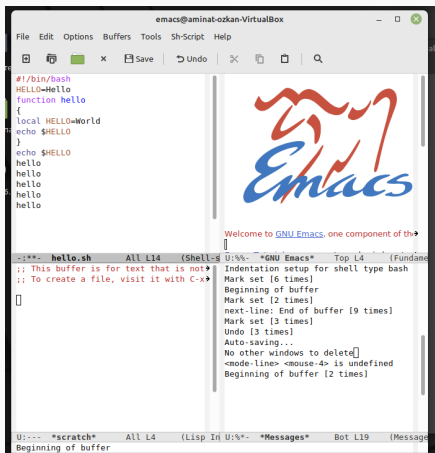
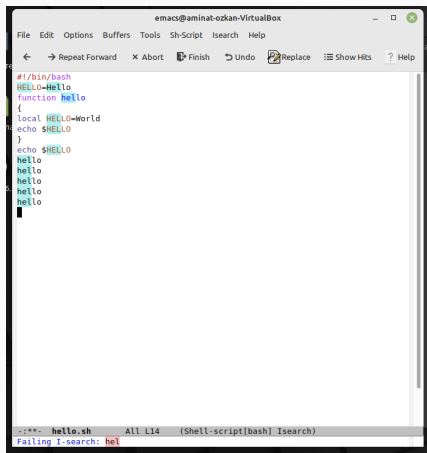


Figure 11: Четыре буфера

Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@aminat-ozkan-VirtualBox'. The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, Isearch, and Help. The toolbar contains icons for Repeat Forward, Abort, Finish, Undo, Replace, Show Hits, and Help. 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 search state: ':-*- hello.sh All L14 (Shell-script[bash] Isearch)'. The search results are shown as 'Failing I-search: hel'.

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.