

# Редактор Emacs

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Касьянов Артём Владимирович НБИбд-01-21<sup>1</sup>

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<sup>1</sup>Российский Университет Дружбы Народов

# Цели и задачи работы

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## Цель лабораторной работы

Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором Emacs.

1 Изучить возможности редактора Emacs

# **Процесс выполнения лабораторной работы**

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# Выполнение работы

## 1. Откроем Emacs.

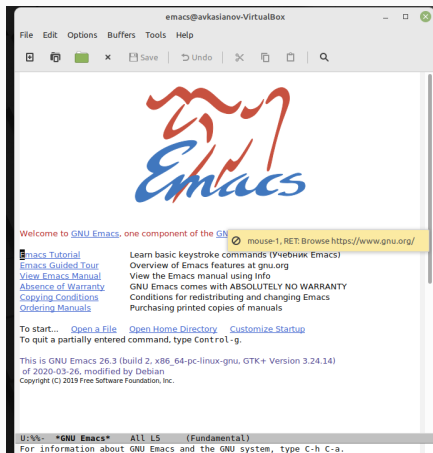
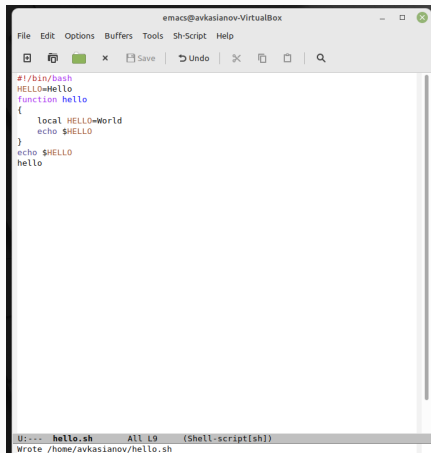


Figure 1: Запуск Emacs

# Выполнение работы



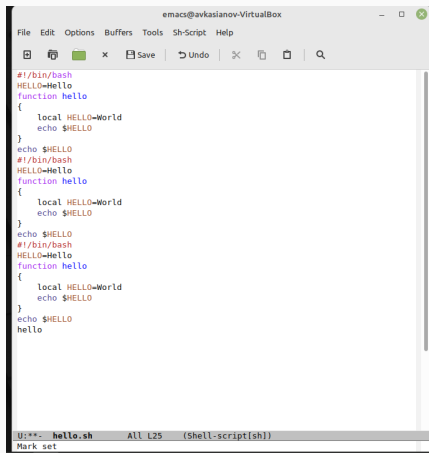
The screenshot shows the Emacs editor window titled "emacs@avkasianov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays the following shell script code:

```
#!/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", line 9, and the shell is "(Shell-script[sh])". It also shows the message "Wrote /home/avkasianov/hello.sh".

Figure 2: Новый файл

# Выполнение работы



The screenshot shows an Emacs editor window titled 'emacs@avkasianov-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:

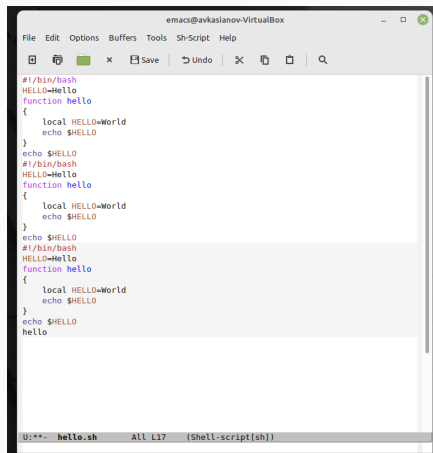
```
#!/bin/bash
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
#!/bin/bash
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
#!/bin/bash
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
```

The status bar at the bottom indicates the current position: 'U:\*\*\*- hello.sh All L25 (Shell-script[sh])' and 'Mark set'.

**Figure 3:** Операция вставка



# Выполнение работы



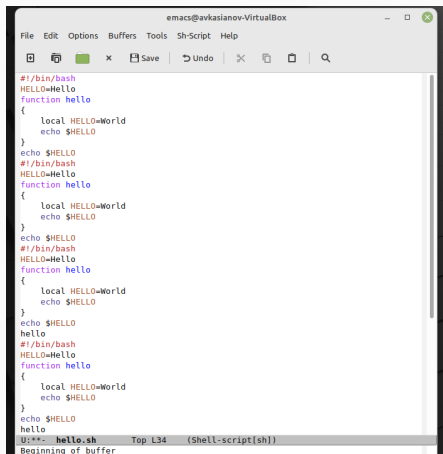
The screenshot shows the Emacs editor window titled "emacs@avkasianov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The editor displays a shell script with the following content:

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

The block of code from the second "#!/bin/bash" line to the end of the script is highlighted in light gray. The status bar at the bottom shows "U:\*\*\*- hello.sh All L17 (Shell-script(sh))".

**Figure 4:** Выделение блока

# Выполнение работы



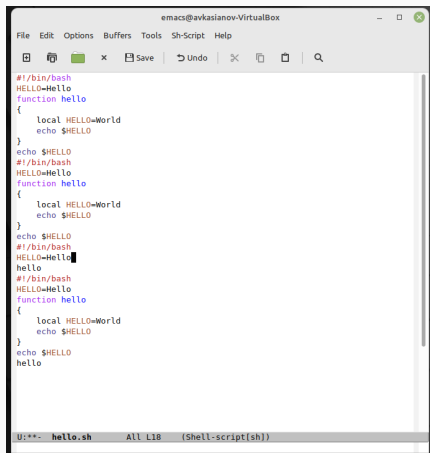
The screenshot shows an Emacs editor window titled "emacs@avkasianov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current position: "U:\*\*\*- hello.sh Top L34 (Shell-script(sh))" and "Beginning of buffer".

Figure 5: Копирование блока

# Выполнение работы



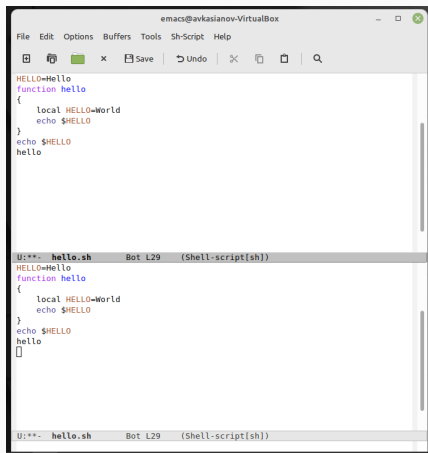
The screenshot shows the Emacs editor interface with the title bar "emacs@avkasianov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the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

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

The status bar at the bottom indicates the current buffer is "hello.sh", the cursor is at line 18, and the file is a shell script.

Figure 6: Удаление блока

# Выполнение работы



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

```
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
```

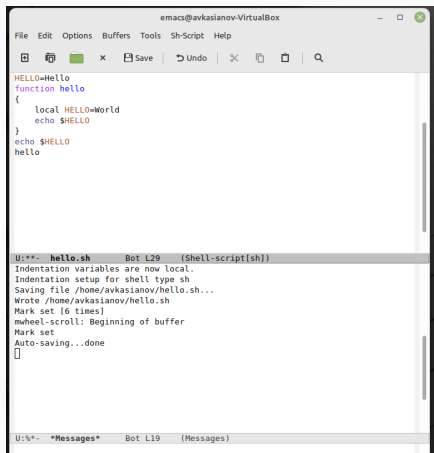
Below the script, the output of the script execution is shown in a separate pane, separated by a horizontal line. The output is:

```
U:*** hello.sh Bot L29 (Shell-script[sh])
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
[]
```

The bottom status bar shows 'U:\*\*\* hello.sh Bot L29 (Shell-script[sh])'.

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:

```
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
```

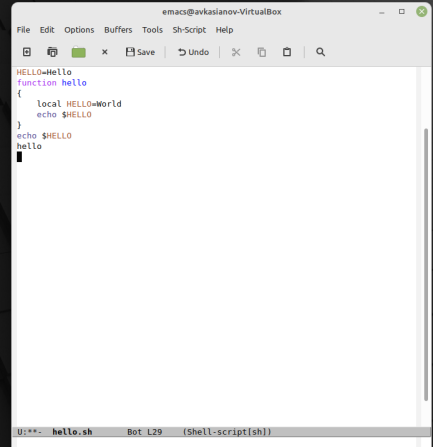
The bottom panel shows the output of running the script, indicating that the buffer has been switched to the `Messages` buffer.

```
U:*** hello.sh Bot L29 (Shell-script[sh])
Indentation variables are now local.
Indentation setup for shell type sh
Saving file /home/avkasianov/hello.sh...
Wrote /home/avkasianov/hello.sh
Mark set [6 times]
mwheel-scroll: Beginning of buffer
Mark set
Auto-saving...done
[]

U:*** *Messages* Bot L19 (Messages)
```

Figure 8: Переключение буфера

# Выполнение работы

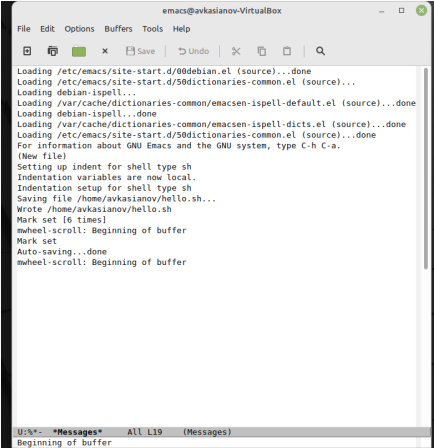
A screenshot of an Emacs editor window titled 'emacs@avkasianov-VirtualBox'. The window has a menu bar with 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. Below the menu is a toolbar with icons for file operations and editing. The main text area contains a shell script with the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

```
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
```

The cursor is at the end of the 'hello' command. At the bottom of the window, a status bar shows 'U:\*\*\*- hello.sh Bot L29 (Shell-script[sh])'.

Figure 9: Закроем буфер

# Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@avkasianov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', and 'Help'. The toolbar contains icons for window management, saving, undo, and search. The main text area displays the following output:

```
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.
(New file)
Setting up indent for shell type sh
Indentation variables are now local.
Indentation setup for shell type sh
Saving file /home/avkasianov/hello.sh...
Wrote /home/avkasianov/hello.sh
Mark set [6 times]
mwheel-scroll: Beginning of buffer
Mark set
Auto-saving...done
mwheel-scroll: Beginning of buffer
```

The status bar at the bottom shows 'U:%\* - \*Messages\* All L19 (Messages)' and 'Beginning of buffer'.

Figure 10: Переключение буфера

# Выполнение работы

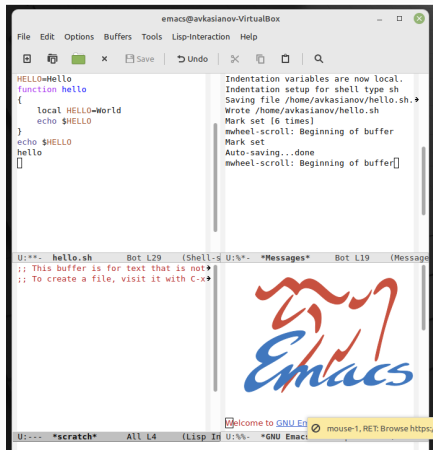


Figure 11: Четыре буфера



# Выполнение работы

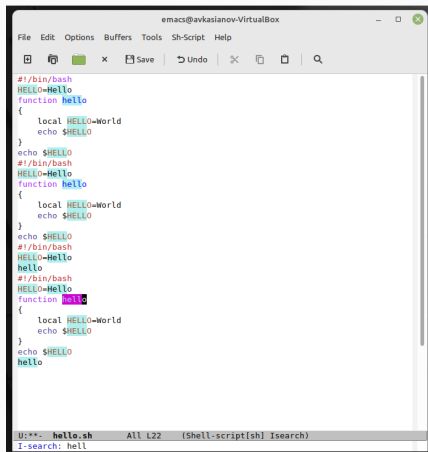


Figure 12: Режим поиска

## **Выводы по проделанной работе**

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