

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.

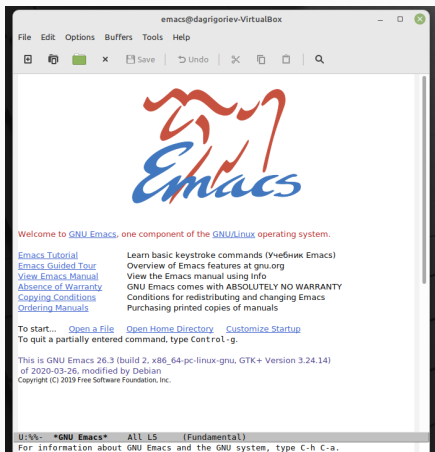
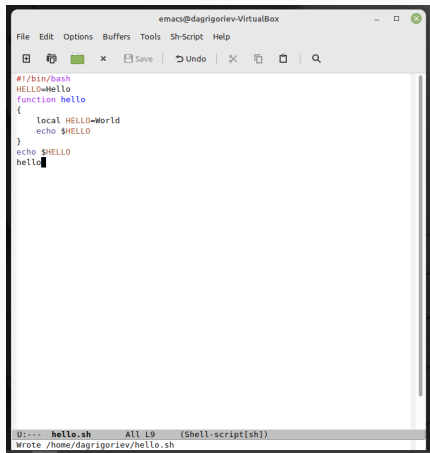


Figure 1: Запуск Emacs

Выполнение работы



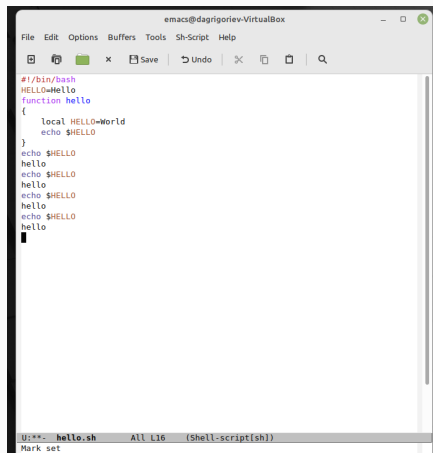
The image shows a screenshot of the Emacs text editor running inside a VirtualBox environment. The window title is 'emacs@dagrigoriev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area contains the following 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', it has 19 lines, and the cursor is at line 9. It also shows the command '(Shell-script[sh])' and a message 'Wrote /home/dagrigoriev/hello.sh'.

Figure 2: Новый файл

Выполнение работы



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

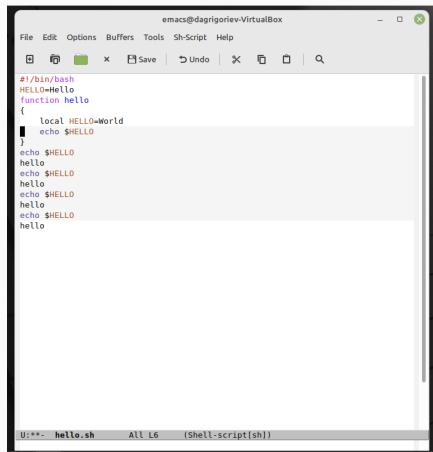
```
#!/bin/bash
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
```

The output of the script is visible at the bottom of the window:

```
U:***- hello.sh All L16 (Shell-script{sh})
Mark set
```

Figure 3: Операция вставка

Выполнение работы



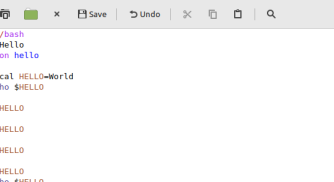
The screenshot shows an Emacs editor window titled "emacs@dagrigoriev-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The editor displays a shell script with the following content:

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

A light gray rectangular highlight covers the function definition and its first call, specifically the lines from "function hello" to the first "hello" command. The status bar at the bottom indicates "U:*** hello.sh All L6 (Shell-script[sh])".

Figure 4: Выделение блока

Выполнение работы



The screenshot shows the Emacs editor interface with the title bar 'emacs@dagrigoriev-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 being executed in a shell. The script defines a function 'hello' that prints 'HELLO=Hello' and 'hello' (indented). It then enters a loop that echoes '\$HELLO' and 'hello' multiple times. The status bar at the bottom shows 'U:***- hello.sh' and 'All L24 (Shell-script[sh])'.

```

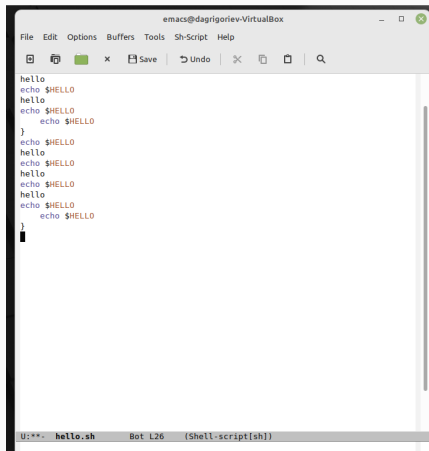
#1/bin/bash
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
echo $HELLO
    echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
| echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO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

```

U:***- hello.sh All L24 (Shell-script[sh])

Figure 5: Копирование блока

Выполнение работы



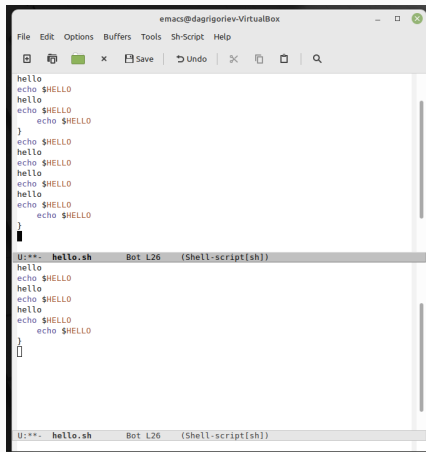
The screenshot shows the Emacs editor window titled "emacs@dagrigoriev-VirtualBox". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for opening, saving, undo, redo, and search. The main text area contains a shell script with the following content:

```
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
|
```

The status bar at the bottom shows "U:***- hello.sh Bot L26 (Shell-script{sh})".

Figure 6: Удаление блока

Выполнение работы



The screenshot shows the Emacs editor interface with a window titled 'emacs@dagrigoriev-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 divided horizontally into two panes. The top pane contains a shell script with the following content:

```
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
```

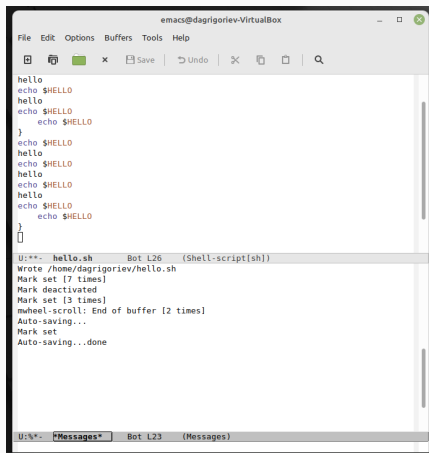
The bottom pane shows the output of the script execution, with a prompt 'U:***- hello.sh Bot L26 (Shell-script[sh])' followed by the same output as the script:

```
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
```

At the bottom of the window, a status bar shows 'U:***- hello.sh Bot L26 (Shell-script[sh])'.

Figure 7: Горизонтальное разделение

Выполнение работы



The screenshot shows the Emacs editor interface with the title bar "emacs@dagrigoriev-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:

```
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}

```

Below the script, the output of the shell script execution is shown in a buffer named "Messages*":

```
U:***- hello.sh      Bot L26   (Shell-script[sh])
Wrote /home/dagrigoriev/hello.sh
Mark set [7 times]
Mark deactivated
Mark set [3 times]
mwheel-scroll: End of buffer [2 times]
Auto-saving...
Mark set
Auto-saving...done
```

The status bar at the bottom indicates the current buffer is "Messages*" and the line number is "Bot L23 (Messages)".

Figure 8: Переключение буфера

Выполнение работы

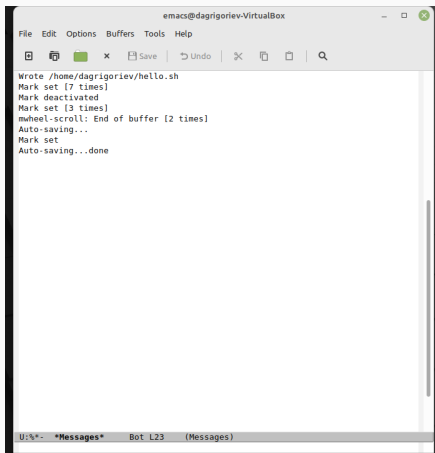
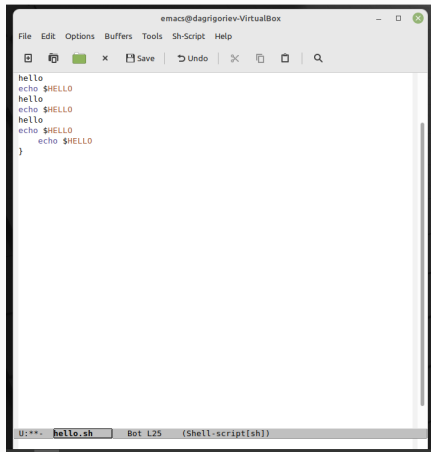


Figure 9: Закроем буфер

Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@dagrigoriev-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:

```
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
    echo $HELLO
}
```

The status bar at the bottom indicates the current buffer is "hello.sh" and the shell is "Bot L25 (Shell-script[sh])".

Figure 10: Переключение буфера

Выполнение работы

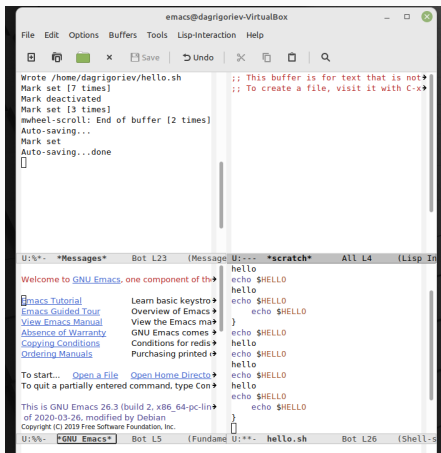
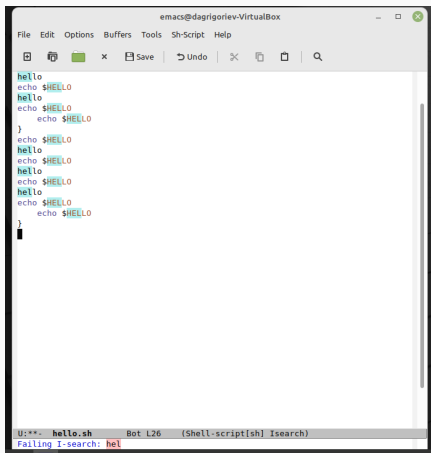


Figure 11: Четыре буфера

Выполнение работы



```
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
hello
echo $HELLO
  echo $HELLO
}
```

U:*** hello.sh Bot L26 {Shell-script[sh] Isearch}
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.