

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.

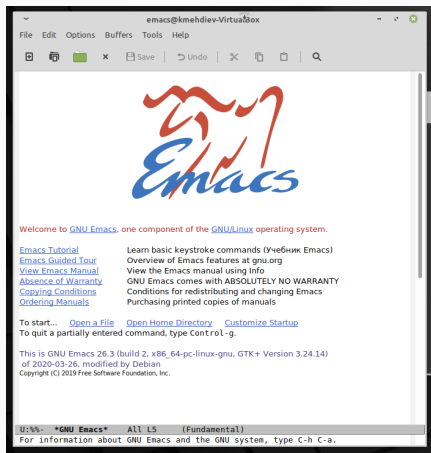
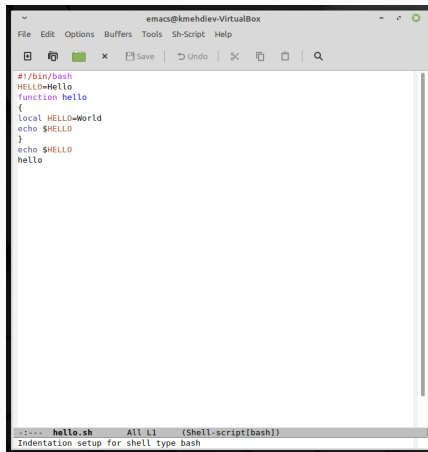


Figure 1: Запуск Emacs

Выполнение работы



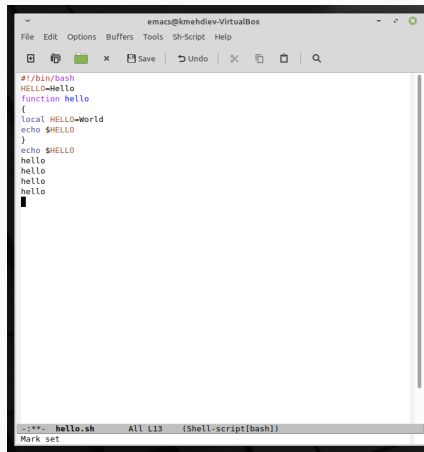
The screenshot shows an Emacs editor window titled 'emacs@knehdiev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area contains the following shell script code:

```
#!/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', the cursor is at 'All 11', and the shell type is '(shell-script[bash])'. A message 'Indentation setup for shell type bash' is also visible.

Figure 2: Новый файл

Выполнение работы



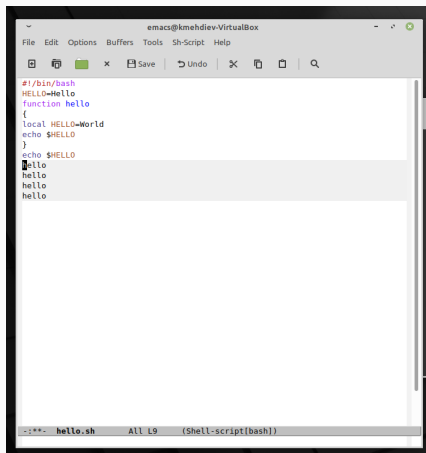
The screenshot shows an Emacs editor window titled 'emacs@kmehdiev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for opening files, saving, undo, redo, and search. The main text area contains the following shell script:

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

The status bar at the bottom indicates the current file is 'hello.sh', line 13, and the buffer is '(shell-script[bash])'. It also shows 'Mark set'.

Figure 3: Операция вставка

Выполнение работы



The screenshot shows the Emacs editor interface running inside a VirtualBox window titled 'emacs@kmehdiev-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 buffer 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
```

The block of code from the function definition to the final four 'hello' outputs is highlighted in light gray. The status bar at the bottom indicates the current buffer is 'hello.sh', line 19, and the shell is '(Shell-script(bash))'.

Figure 4: Выделение блока

Выполнение работы

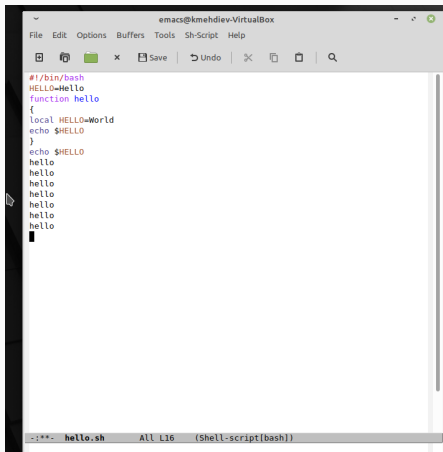
The screenshot shows the Emacs editor interface. The title bar reads "emacs@kmehdiev-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and search. The main text area displays the following shell script:

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

The status bar at the bottom indicates the current file is "hello.sh", it has 17 lines ("All L17"), and it is a shell script for the bash shell ("(Shell-script(bash))").

Figure 5: Копирование блока

Выполнение работы



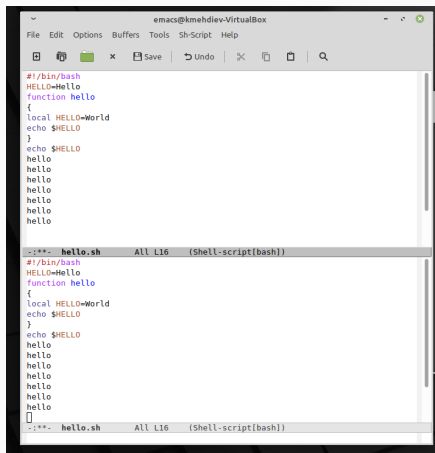
The screenshot shows an Emacs editor window titled 'emacs@kmehdiev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for opening a file, saving, undo, redo, and search. The main text area displays a shell script with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

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

A mouse cursor is hovering over the first 'hello' output line. The status bar at the bottom indicates the current file is 'hello.sh', the cursor is at line 16, and the buffer is '(Shell-script(bash))'.

Figure 6: Удаление блока

Выполнение работы



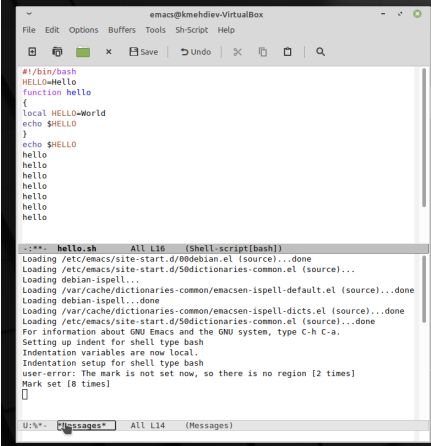
The screenshot shows the Emacs editor interface within a VirtualBox window titled 'emacs@kmehdiev-VirtualBox'. The main window displays a shell script named 'hello.sh' with the following content:

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

Below the main window, there are two smaller, horizontally split windows, each displaying the same script content. The status bar at the bottom of each window indicates 'hello.sh', 'All L16', and '(Shell-script(bash))'.

Figure 7: Горизонтальное разделение

Выполнение работы



The screenshot shows an Emacs window titled 'emacs@kmehdiiev-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 buffer 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
```

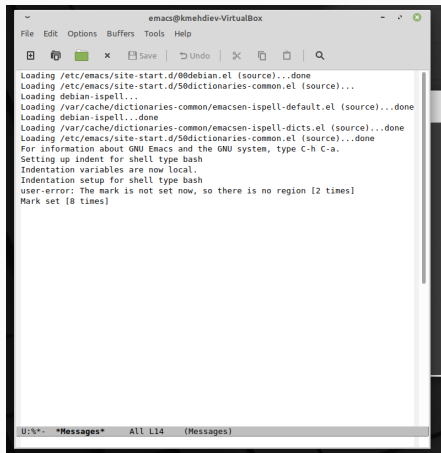
Below the script, a buffer window titled 'hello.sh All L16 (Shell-script[bash])' shows the output of the script:

```
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/emacsen-ispell-default.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacsen-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
user-error: The mark is not set now, so there is no region [2 times]
Mark set [8 times]
```

At the bottom, a buffer window titled 'U:~*~ Messages* All L14 (Messages)' is visible, showing the Emacs status line.

Figure 8: Переключение буфера

Выполнение работы



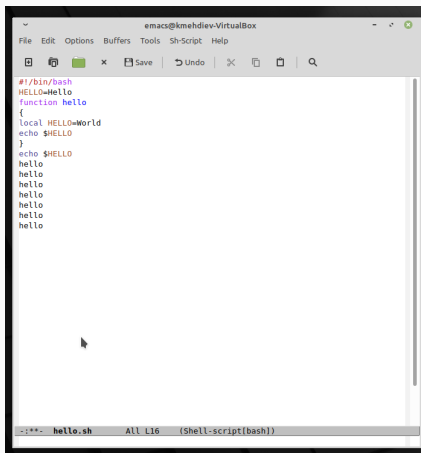
```
emacs@kmehdiev-VirtualBox
File Edit Options Buffers Tools Help

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/emacsen-ispell-default.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacsen-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
user-error: The mark is not set now, so there is no region [2 times]
Mark set [8 times]

U:%*- *Messages* All L14 (Messages)
```

Figure 9: Закроем буфер

Выполнение работы

A screenshot of the Emacs editor window titled 'emacs@kmehdiev-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar shows 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
hello
hello
```

The status bar at the bottom displays '--- hello.sh All L16 (Shell-script(bash))'.

```
emacs@kmehdiev-VirtualBox
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons]
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
hello
hello
hello
hello
hello
--- hello.sh All L16 (Shell-script(bash))
```

Figure 10: Переключение буфера

Выполнение работы

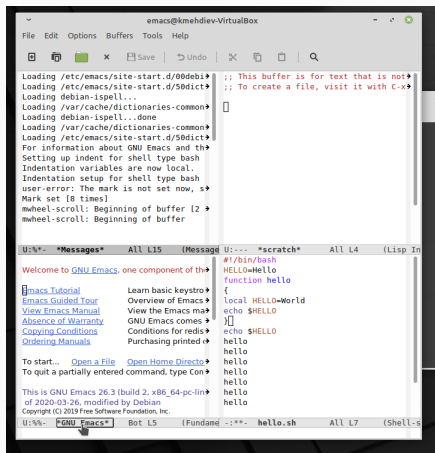


Figure 11: Четыре буфера

Выполнение работы

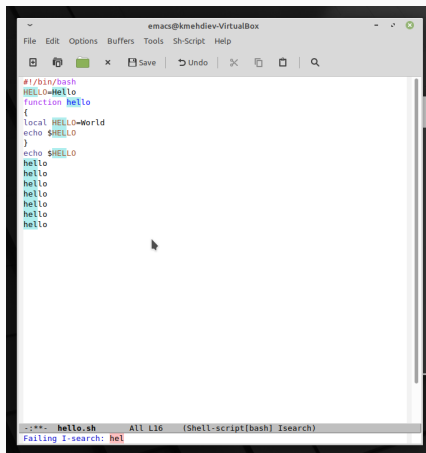


Figure 12: Режим поиска

Выводы по проделанной работе

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