

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.

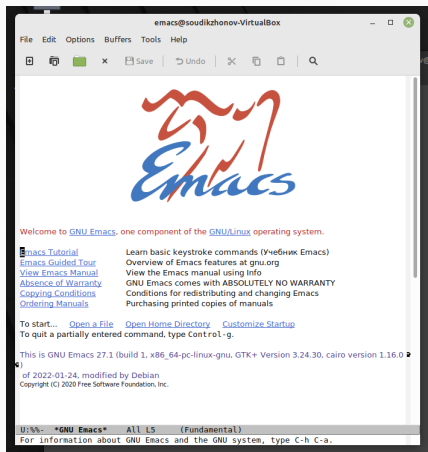
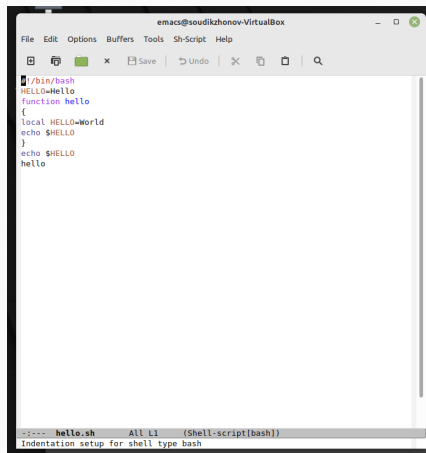


Figure 1: Запуск Emacs

Выполнение работы



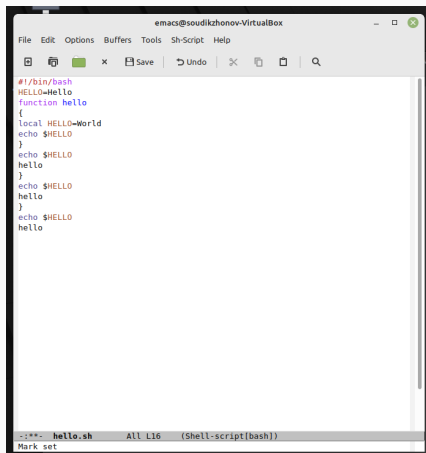
The image shows a screenshot of the Emacs editor window titled "emacs@soudikzhonov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a new shell script file named "hello.sh" 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 file is "hello.sh", line 11, column 1, in a shell script mode.

Figure 2: Новый файл

Выполнение работы



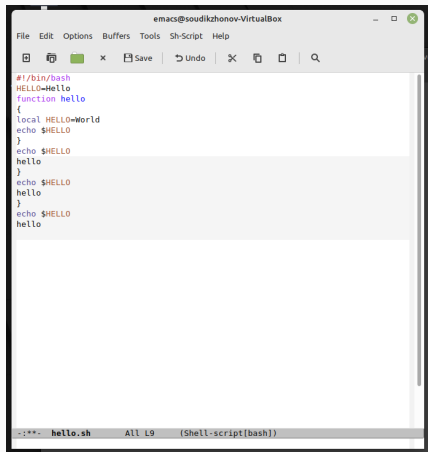
The screenshot shows an Emacs editor window titled "emacs@soudikzhonov-VirtualBox". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current buffer is "hello.sh", the cursor is at "All L16", and the mode is "(Shell-script(bash))". A "Mark set" indicator is also visible.

Figure 3: Операция вставка

Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@soudikzhonov-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
```

A light gray rectangular highlight is applied to the lines 6 through 12 of the script, which include the function definition and its first call. The status bar at the bottom indicates the current file is 'hello.sh', the cursor is at line 9, and the buffer is '(Shell-script[bash])'.

Figure 4: Выделение блока

Выполнение работы

A screenshot of the Emacs text editor interface. The title bar at the top reads "emacs@soudikzhonov-VirtualBox". Below the title bar is a menu bar with options: File, Edit, Options, Buffers, Tools, Sh-Script, Help. A toolbar contains icons for file operations like Save, Undo, and search. The main editing area displays a shell script with syntax highlighting: "#!/bin/bash" in red, "HELLO=Hello" in blue, "function hello" in blue, and the function body in black. The status bar at the bottom shows "-***- hello.sh", "All L33", and "(Shell-script(bash))".

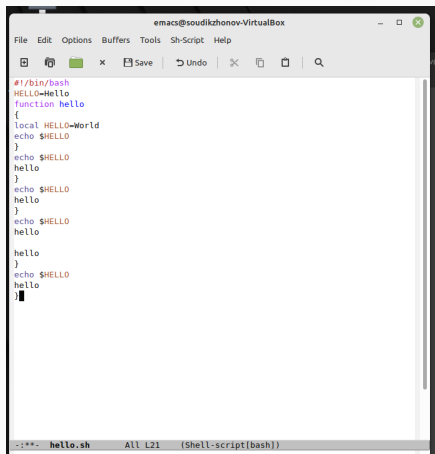
```
#!/bin/bash
HELLO=Hello
function hello
{
    local HELLO=World
    echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
```

-***- hello.sh All L33 (Shell-script(bash))

Mark set

Figure 5: Копирование блока

Выполнение работы



The screenshot shows an Emacs editor window titled "emacs@soudikzhonov-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:

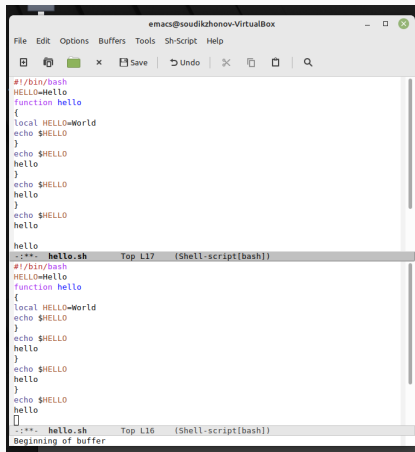
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
}
hello
}
echo $HELLO
hello
}

```

The status bar at the bottom indicates the current file is "hello.sh", the cursor is at "All L21", and the buffer is "(Shell-script(bash))".

Figure 6: Удаление блока

Выполнение работы



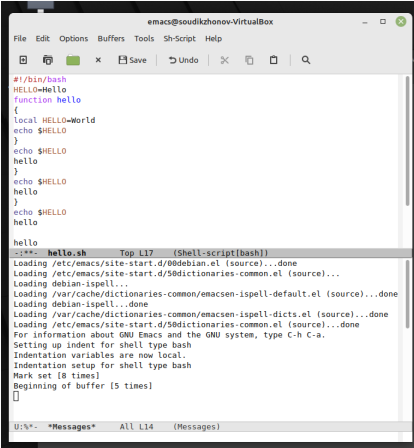
The screenshot shows the Emacs editor interface with a window titled 'emacs@soudikzhonov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The editor is split horizontally into two panes.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

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

The top pane shows the script with a status bar at the bottom indicating 'Top L17 (Shell-script[bash])'. The bottom pane shows the script with a status bar at the bottom indicating 'Top L16 (Shell-script[bash])' and 'Beginning of buffer'.

Figure 7: Горизонтальное разделение

Выполнение работы



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

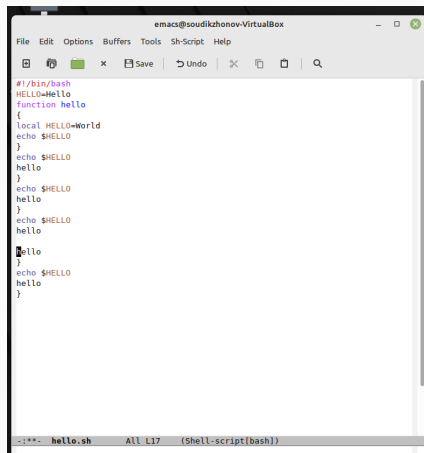
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hello
}
echo $HELLO
hello
hello

hello
-:~*- hello.sh Top L17 (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-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 [8 times]
Beginning of buffer [5 times]
[]

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

Figure 8: Переключение буфера

Выполнение работы



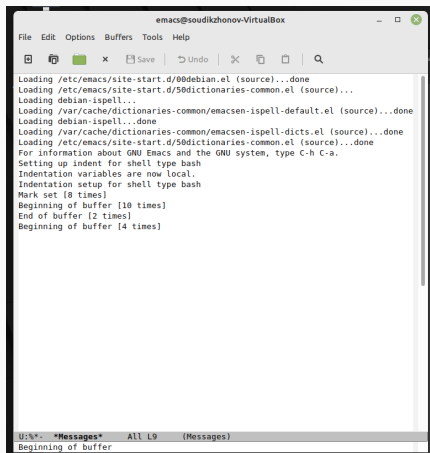
The image shows a screenshot of the Emacs editor window running inside a VirtualBox. The window title is 'emacs@soudikzhonov-VirtualBox'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar shows icons for file operations and search. The main text area contains a shell script named 'hello.sh' 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 status bar at the bottom indicates the current buffer is 'hello.sh', the line is 'All L17', and the mode is '(Shell-script(bash))'.

Figure 9: Закроем буфер

Выполнение работы



The screenshot shows the Emacs editor window titled "emacs@soudikzhonov-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 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/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
Mark set [8 times]
Beginning of buffer [10 times]
End of buffer [2 times]
Beginning of buffer [4 times]
```

The status bar at the bottom shows "U:%* *Messages* All L9 (Messages)" and "Beginning of buffer".

Figure 10: Переключение буфера

Выполнение работы

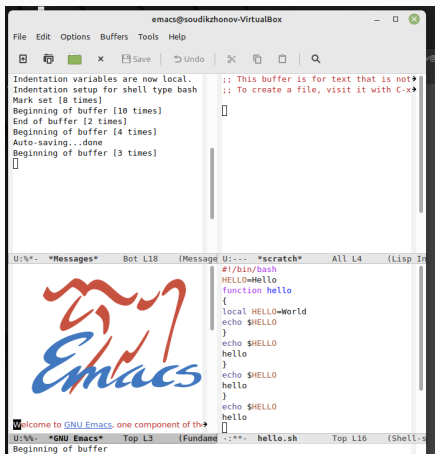
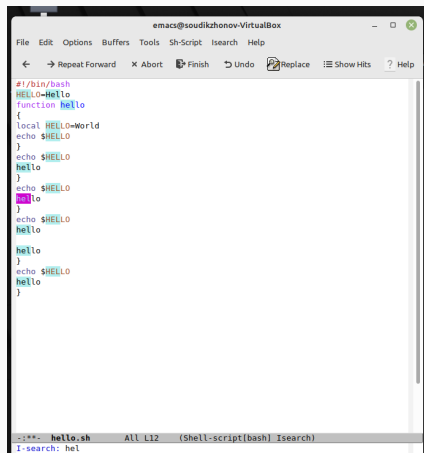


Figure 11: Четыре буфера

Выполнение работы

A screenshot of the Emacs editor window titled 'emacs@soudikzhonov-VirtualBox'. The window shows a shell script file named 'hello.sh' 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 editor is in search mode, indicated by the status bar at the bottom which reads 'hello.sh All L12 (Shell-script[bash] Isearch)'. The search bar at the bottom left shows 'i-search: hel'. The search results are highlighted in the text: 'HELLO=Hello' on line 2, 'function hello' on line 3, 'local HELLO=World' on line 5, 'echo \$HELLO' on lines 6, 10, 14, and 18, 'hello' on lines 7, 11, 15, and 19, and '}' on lines 8, 12, 16, and 20.

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.