

Редактор Emacs

Камилла Умярова¹

7 апреля, 2023, Москва, Россия

¹Российский Университет Дружбы Народов

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.

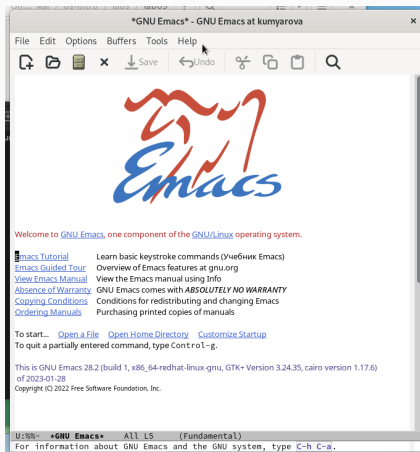
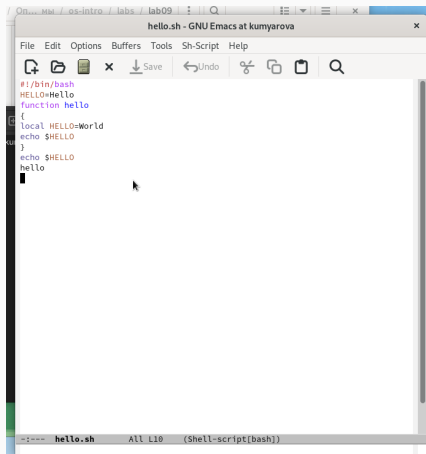


Рис. 1: Запуск Emacs

Выполнение работы



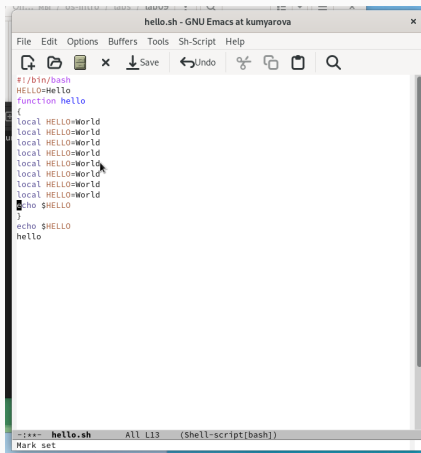
The image shows a GNU Emacs editor window titled "hello.sh - GNU Emacs at kumyarova". The window contains a new shell script file with the following content:

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

The status bar at the bottom of the window indicates the file is named "hello.sh", is 110 lines long, and is a shell script using bash.

Рис. 2: Новый файл

Выполнение работы



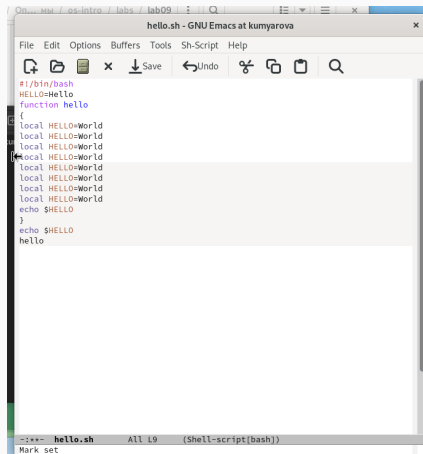
```
hello.sh - GNU Emacs at kumyarova
File Edit Options Buffers Tools Sh-Script Help
[Icons: New, Open, Save, Undo, Redo, Copy, Paste, Find]

#!/bin/bash
HELLO=Hello
function hello
(
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
)
echo $HELLO
hello

-:***- hello.sh All L13 (Shell-script[bash])
Mark set
```

Рис. 3: Операция вставка

Выполнение работы



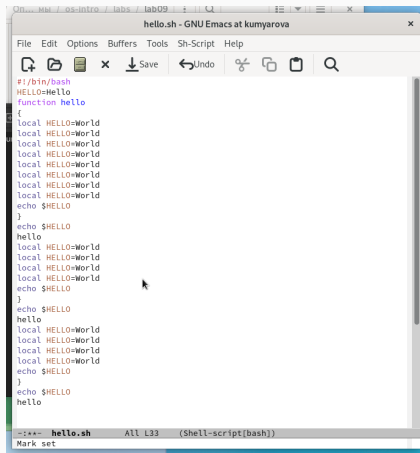
The screenshot shows a GNU Emacs editor window titled "hello.sh - GNU Emacs at kumyarova". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for opening, saving, undo, redo, and search. The main text area displays a shell script with the following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

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

A rectangular block of the script is highlighted in light gray, spanning from the first "local HELLO=World" line to the "echo \$HELLO" line within the function. The status bar at the bottom indicates the current line is 9, column 19, and the file is named "hello.sh".

Рис. 4: Выделение блока

Выполнение работы



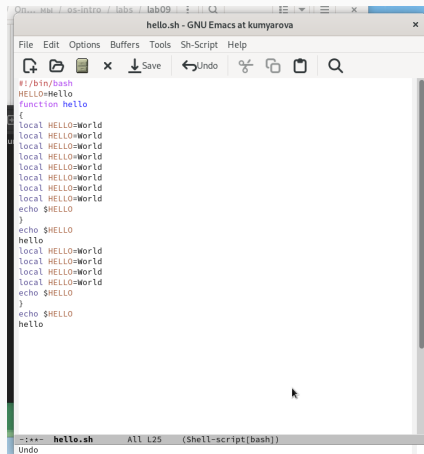
```
hello.sh - GNU Emacs at kumyarova
File Edit Options Buffers Tools Sh-Script Help
[Icons: Copy, Paste, Undo, Save, Find, etc.]

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

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

Рис. 5: Копирование блока

Выполнение работы



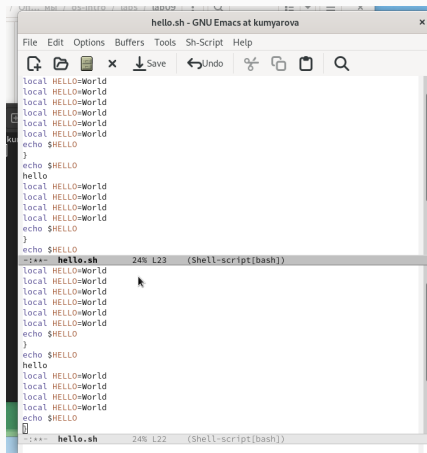
The screenshot shows the GNU Emacs editor window titled "hello.sh - GNU Emacs at kumyarova". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for opening, saving, undo, redo, and search. The main text area displays a shell script with the following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

```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
local HELLO=World
local HELLO=World
local HELLO=World
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 25, and the shell is "bash".

Рис. 6: Удаление блока

Выполнение работы



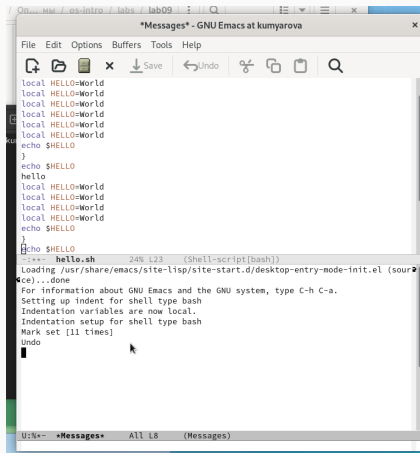
The screenshot shows a GNU Emacs editor window titled "hello.sh - GNU Emacs at kumyarova". The window is split horizontally into two panes. Both panes display the same shell script content:

```
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
}
echo $HELLO
```

The bottom pane is currently active, showing a prompt `~*~ hello.sh` at the 24% L22 position. The script content is color-coded: `local` is blue, `HELLO=World` is red, `echo` is green, and `$HELLO` is blue. The top pane is inactive and shows the same content.

Рис. 7: Горизонтальное разделение

Выполнение работы



The screenshot shows the GNU Emacs editor interface. The title bar reads "*Messages* - GNU Emacs at kumyarova". 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 content:

```
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
}
echo $HELLO
```

The cursor is positioned at the end of the last line. Below the text area, a status bar shows "U: N: * - *Messages* All L8 (Messages)".

Рис. 8: Переключение буфера

Выполнение работы

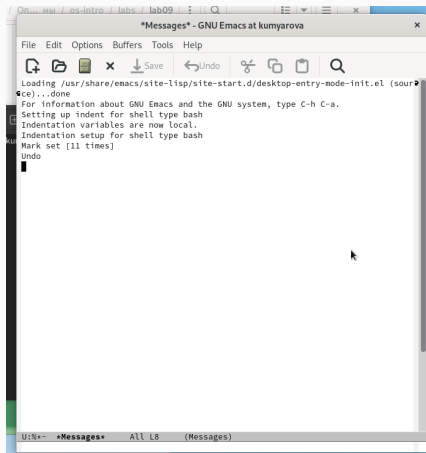


Рис. 9: Закроем буфер

Выполнение работы

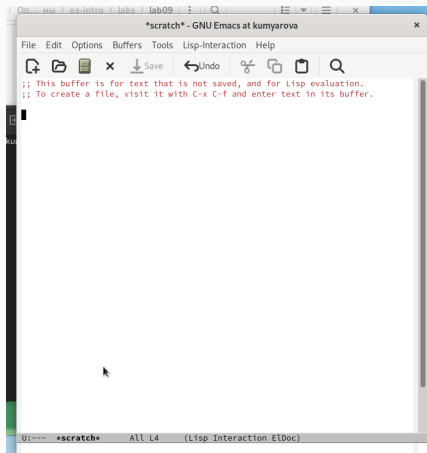


Рис. 10: Переключение буфера

Выполнение работы

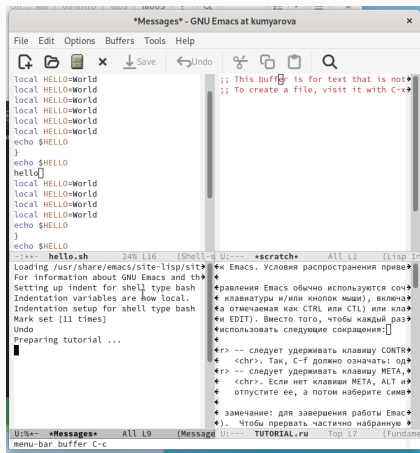
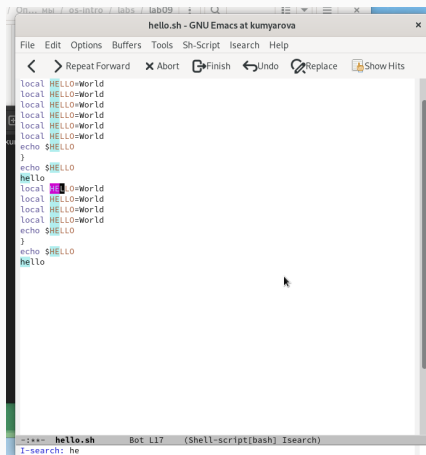


Рис. 11: Четыре буфера

Выполнение работы



The screenshot shows the GNU Emacs editor window titled "hello.sh - GNU Emacs at kumyarova". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, Isearch, and Help. Below the menu bar, search navigation icons are visible: Repeat Forward, Abort, Finish, Undo, Replace, and Show Hits. The main text area displays the contents of a shell script "hello.sh":

```
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
local HELLO=World
local HELLO=World
local HELLO=World
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
```

At the bottom of the window, the status bar shows: `-i*** hello.sh Bot L17 (Shell-script[bash] Isearch)`. Below the status bar, the search prompt `I-search: he` is visible.

Рис. 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.