

Редактор Emacs

Шухрат Хусейнов¹

15 июня, 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.

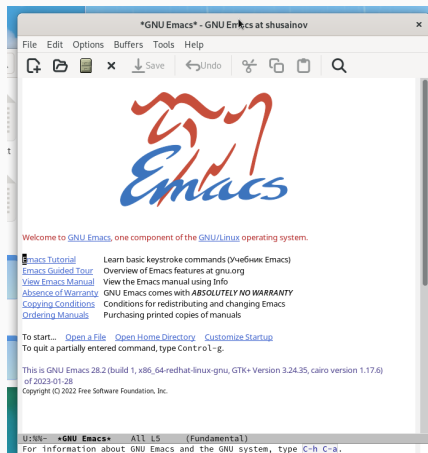


Рис. 1: Запуск Emacs

Выполнение работы

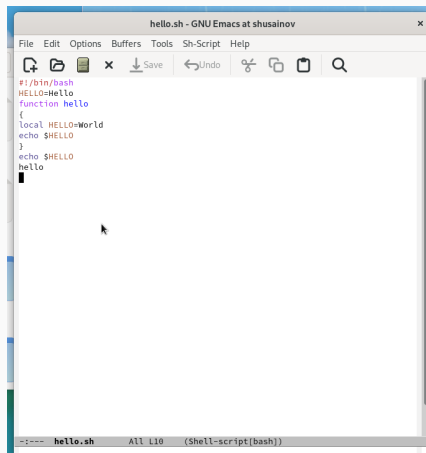
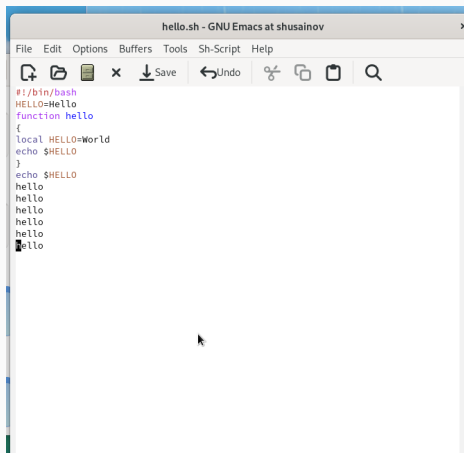


Рис. 2: Новый файл

Выполнение работы



The image shows a screenshot of the GNU Emacs editor window titled "hello.sh - GNU Emacs at shusainov". The window has a menu bar with "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". Below the menu bar is a toolbar with icons for file operations (new, open, save, close), editing (undo, redo, cut, copy, paste), and search. 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
```

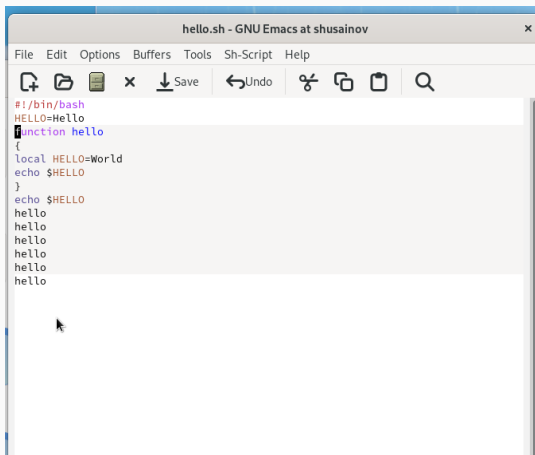
The script defines a function named "hello" that sets a local variable "HELLO" to "World" and echoes its value. It then echoes the global variable "HELLO" (which is "Hello") and calls the "hello" function six times. The output of the script, as shown in the image, is:

```
hello
hello
hello
hello
hello
hello
```

The cursor is positioned at the end of the last line of output.

Рис. 3: Операция вставка

Выполнение работы



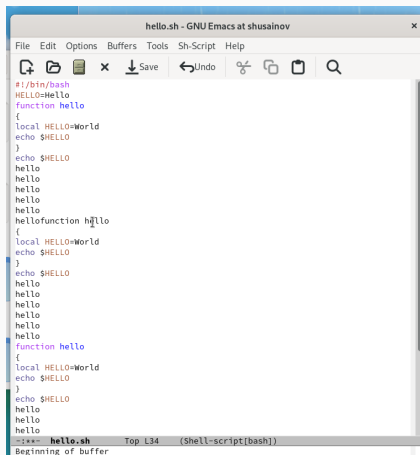
The image shows a screenshot of the GNU Emacs editor window titled "hello.sh - GNU Emacs at shusainov". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations (new, open, save, close), editing (undo, redo, cut, copy, paste), 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
```

The script defines a function named "hello" that sets a local variable "HELLO" to "World" and echoes its value. After the function definition, the script echoes the global "HELLO" variable and then calls the "hello" function six times. The output of the script, which would be "World" followed by six "Hello"s, is not visible in the screenshot.

Рис. 4: Выделение блока

Выполнение работы



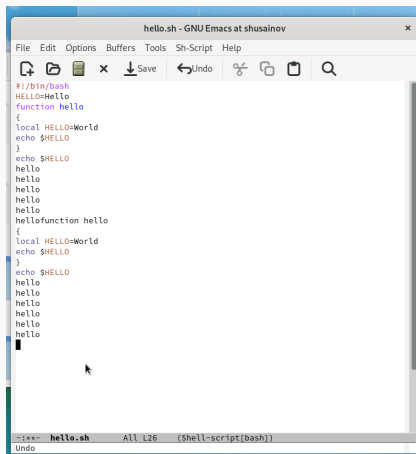
The screenshot shows the GNU Emacs editor window titled "hello.sh - GNU Emacs at shusainov". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for file operations and editing. The main text area displays a shell script with a function named "hello" that prints "HELLO" and "World". The script is being edited, and a cursor is visible on the line "hellofunction hello". The status bar at the bottom indicates the current buffer is "hello.sh" and the cursor is at the "Beginning of buffer".

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

*** hello.sh Top L34 (Shell-script(bash))
Beginning of buffer

Рис. 5: Копирование блока

Выполнение работы



```
hello.sh - GNU Emacs at shusainov
File Edit Options Buffers Tools Sh-Script Help
+ - Save Undo Cut Copy Paste Find
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
hello
hello
hello
hellofunction hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
hello
hello
hello
hello
hello

```

-- hello.sh All L26 (Shell-script[bash])
Undo

Рис. 6: Удаление блока

Выполнение работы

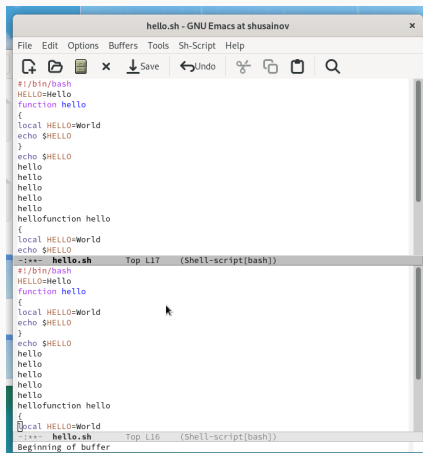
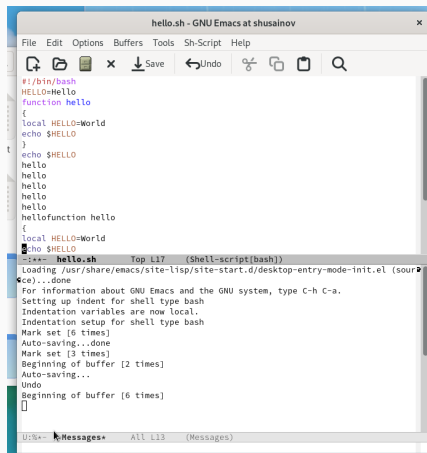


Рис. 7: Горизонтальное разделение

Выполнение работы



The screenshot shows the GNU Emacs editor window titled "hello.sh - GNU Emacs at shusainov". 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 named "hello.sh" with the following content:

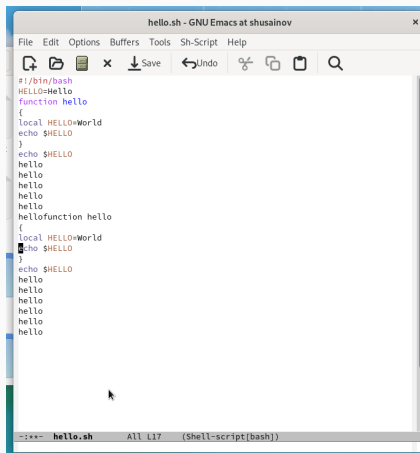
```
#!/bin/bash
HELLO=Hello
function hello
{
  local HELLO=World
  echo $HELLO
}
echo $HELLO
hello
hello
hello
hello
hello
hellofunction hello
{
  local HELLO=World
  echo $HELLO
}
```

The script is being executed, and the output is shown in the "Messages" buffer at the bottom. The output includes the following text:

```
U:~-- hello.sh Top L17 (Shell-script(bash))
Loading /usr/share/emacs/site-lisp/site-start.d/desktop-entry-mode-init.el (sour
...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 [6 times]
Auto-saving...done
Mark set [3 times]
Beginning of buffer [2 times]
Auto-saving...
Undo
Beginning of buffer [6 times]
```

Рис. 8: Переключение буфера

Выполнение работы



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

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

--*- hello.sh All 117 (shell-script(bash))
```

Рис. 9: Закроем буфер

Выполнение работы

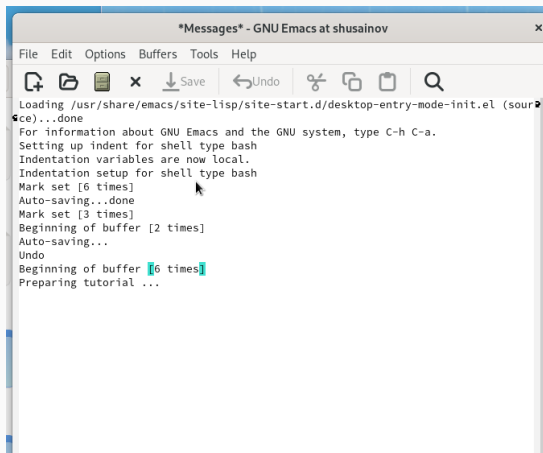


Рис. 10: Переключение буфера

Выполнение работы

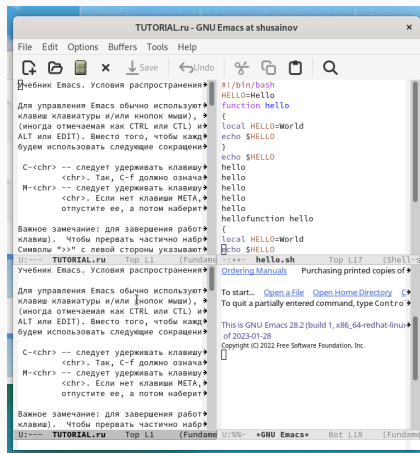


Рис. 11: Четыре буфера

Выполнение работы

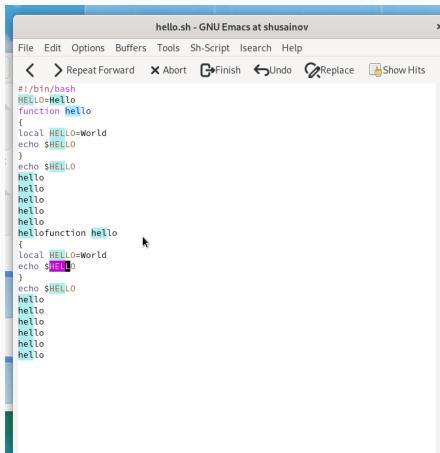


Рис. 12: Режим поиска

Выводы по проделанной работе

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