

# **Операционные системы**

Редактор Emacs

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## **1. Цели и задачи работы**

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## 1.1 Цель лабораторной работы

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Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором Emacs.

## 1.2 Задачи лабораторной работы

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1 Изучить возможности редактора Emacs

## **2. Процесс выполнения лабораторной работы**

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## 2.1 Выполнение работы

### 1. Откроем Emacs.

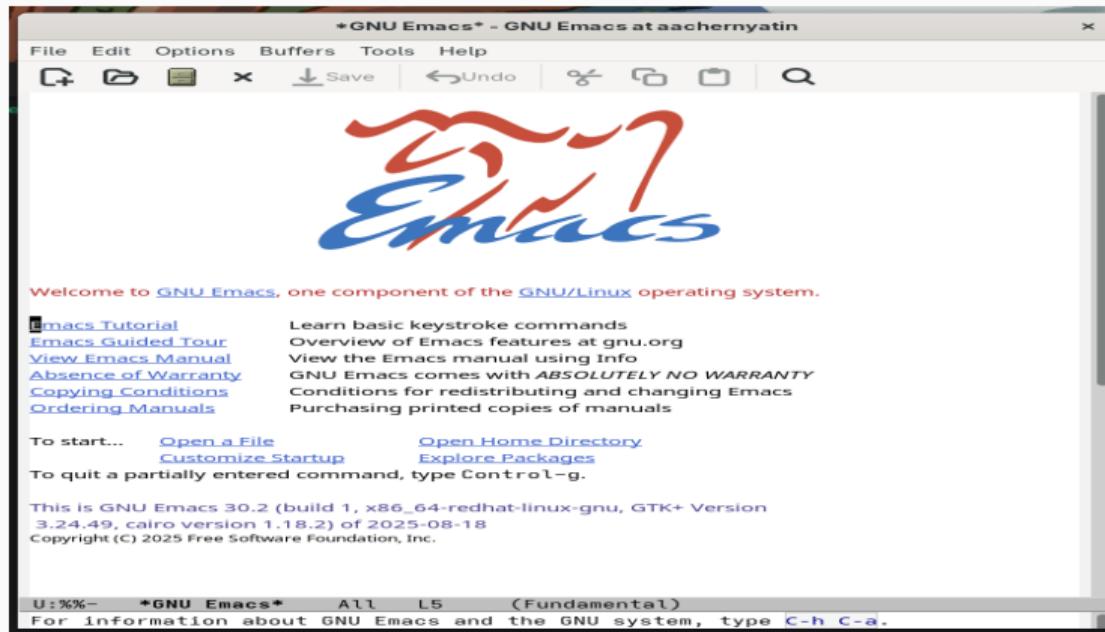
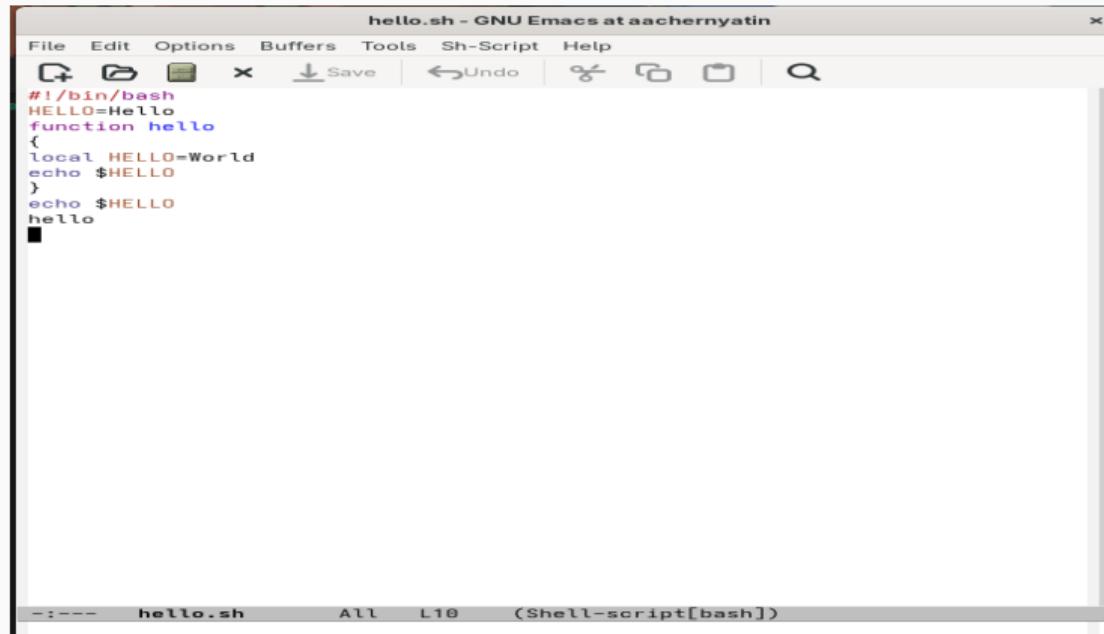


Рисунок 1: Запуск Emacs

## 2.2 Выполнение работы



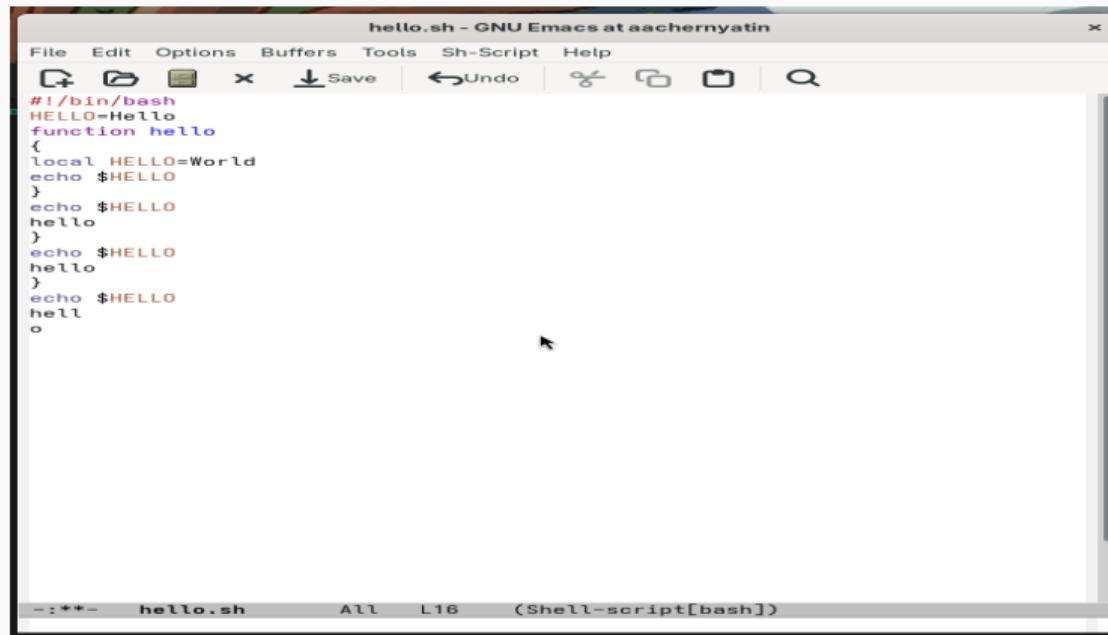
The screenshot shows a window titled "hello.sh - GNU Emacs at aachernyatin". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for New, Open, Save, Undo, and Search. The main buffer area displays the following Bash script:

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

The status bar at the bottom shows the file name "hello.sh", mode "All", line count "L10", and type "(Shell-script[bash])".

Рисунок 2: Новый файл

## 2.3 Выполнение работы



The screenshot shows a window titled "hello.sh - GNU Emacs at aachernyatin". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for Save, Undo, Cut, Copy, Paste, and Find. The main buffer area displays the following shell script:

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

The status bar at the bottom shows "-:\*\*\*- hello.sh All L16 (Shell-script[bash])". A cursor is visible in the middle of the script.

Рисунок 3: Операция вставка

## 2.4 Выполнение работы

```
hello.sh - GNU Emacs at aachernyatin
File Edit Options Buffers Tools Sh-Script Help
e #!/bin/bash
HELLO=Hello
function hello
{
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hell
o

- :**- hello.sh All L6 (Shell-script[bash])
```

Рисунок 4: Выделение блока

## 2.5 Выполнение работы

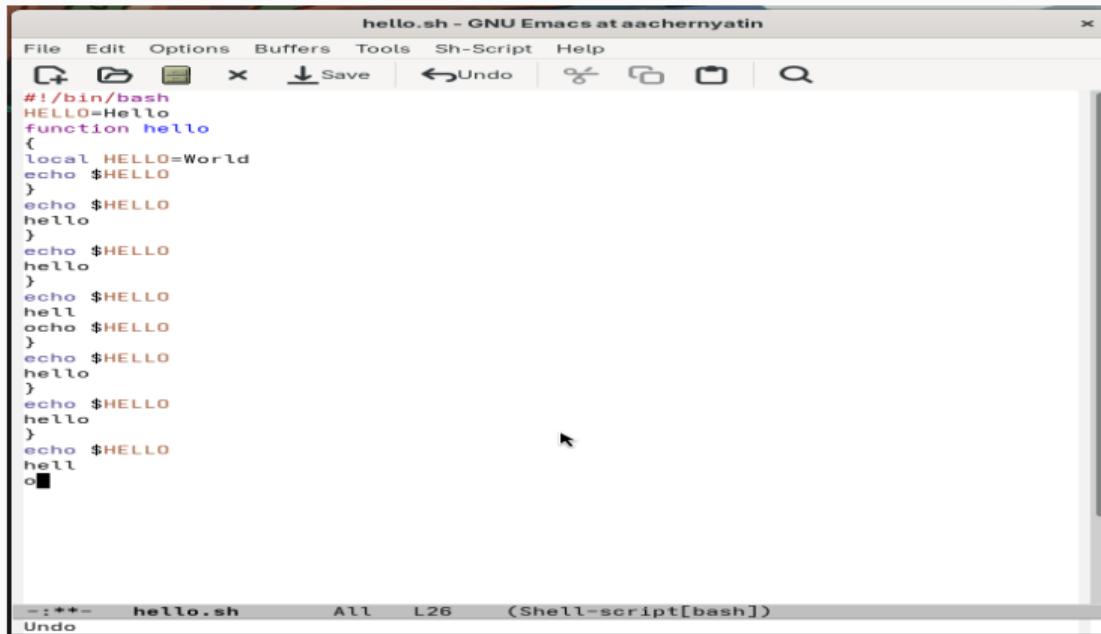
The screenshot shows a window titled "hello.sh - GNU Emacs at aachernyatin". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for Save, Undo, Cut, Copy, Paste, and Search. The code buffer displays a shell script:

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

The status bar at the bottom shows "hello.sh" as the current buffer, "Top", "L33", and "(Shell-script[bash])".

### **Рисунок 5:** Копирование блока

## 2.6 Выполнение работы



The screenshot shows a window titled "hello.sh - GNU Emacs at aachernyatin". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, and Help. The toolbar contains icons for file operations like Open, Save, Undo, and Search. The main buffer area displays a shell script:

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

The cursor is positioned at the end of the word "o". The status bar at the bottom shows "- :\*\*- hello.sh All L26 (Shell-script[bash])".

Рисунок 6: Удаление блока

## 2.7 Выполнение работы



The screenshot shows a window titled "hello.sh - GNU Emacs at aachernyatin". The window has a menu bar with File, Edit, Options, Buffers, Tools, Sh-Script, and Help. Below the menu is a toolbar with icons for Save, Undo, and others. The main area contains two horizontal panes. The top pane displays the following shell script code:

```
echo $HELLO
hello
}
echo $HELLO
hell
ocho $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hell
o
- :**- hello.sh      Bot    L19  (Shell-script[bash])
echo $HELLO
hello
}
echo $HELLO
hell
ocho $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hell
o
- :**- hello.sh      Bot    L19  (Shell-script[bash])
```

The bottom pane is mostly blank. The status bar at the bottom of the window shows the file name "hello.sh", the buffer type "Bot", line number "L19", and "(Shell-script[bash])". A cursor is visible in the middle of the first "hello" line in the top pane.

Рисунок 7: Горизонтальное разделение

## 2.8 Выполнение работы

```
File Edit Options Buffers Tools Sh-Script Help
echo $HELLO
hello
}
echo $HELLO
hell
echo $HELLO
}
echo $HELLO
hello
}
echo $HELLO
hell
o
- -*- hello.sh      Bot    L19  (Shell-script[bash])
Loading /usr/share/emacs/site-lisp/site-start.d/desktop-entry-mode-init.el (source)...done
Loading /usr/share/emacs/site-lisp/site-start.d/mercurial-site-start.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 [6 times]
Beginning of buffer [5 times]
Undo
U :%*- *Messages* All L10 (Messages)
```

Рисунок 8: Переключение буфера

## 2.9 Выполнение работы

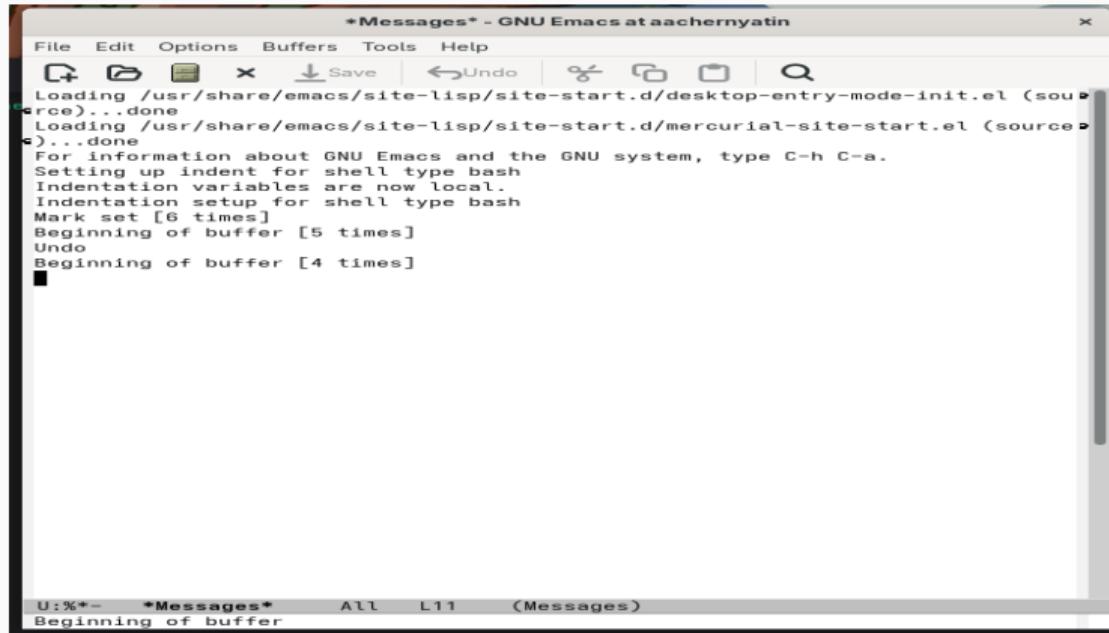


Рисунок 9: Закроем буфер

## 2.10 Выполнение работы

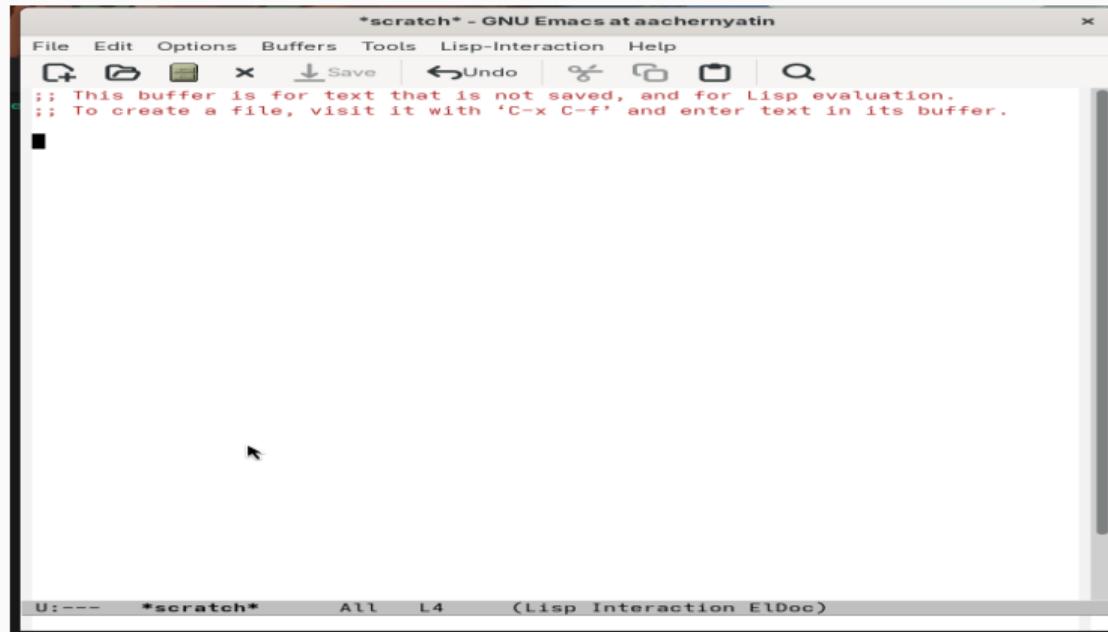


Рисунок 10: Переключение буфера

## 2.11 Выполнение работы

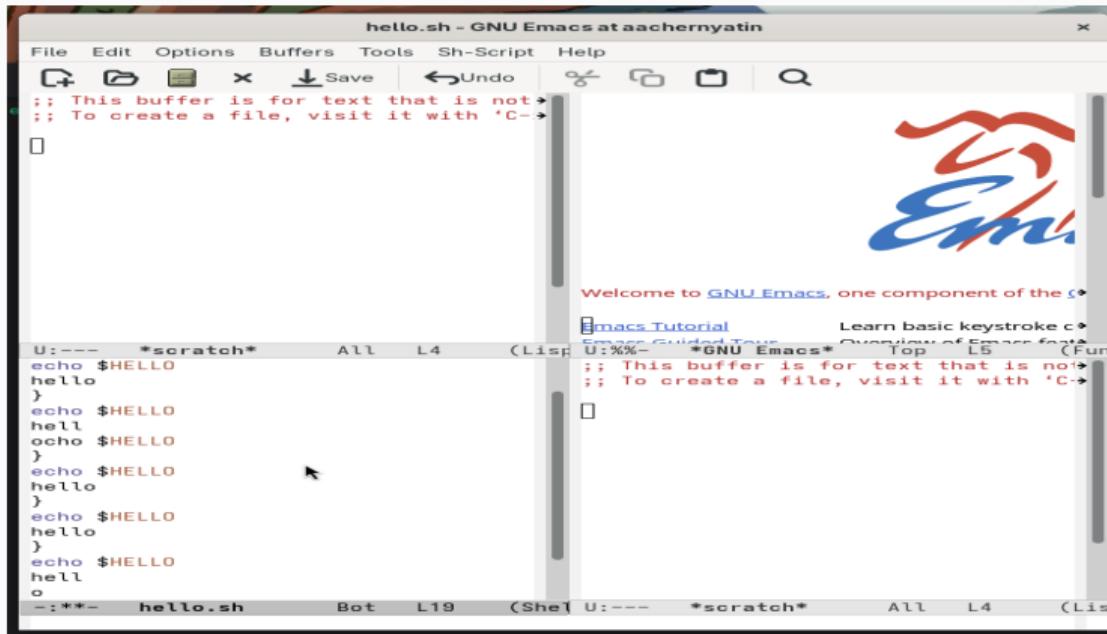


Рисунок 11: Четыре буфера

## 2.12 Выполнение работы

The screenshot shows a window titled "hello.sh - GNU Emacs at aachernyatin". The menu bar includes File, Edit, Options, Buffers, Tools, Sh-Script, Isearch, and Help. Below the menu is a toolbar with buttons for Repeat Forward, Abort, Finish, Undo, Replace, and Show Hits. The main buffer contains a shell script with syntax highlighting for variables (\$HELLO) and functions (hello). The script defines a variable \$HELLO, a function hello that prints it, and then calls the function multiple times. The cursor is positioned near the end of the script. At the bottom of the window, the status bar displays "-:\*\*\*- hello.sh All L24 (Shell-script[bash] Isearch)" and "I-search: hel".

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

Рисунок 12: Режим поиска

### **3. Выводы по проделанной работе**

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### 3.1 Вывод

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