

Командная оболочка Midnight Commander

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Цели и задачи работы

Цель лабораторной работы

Ознакомление с файловой системой Linux, её структурой, именами и содержанием каталогов. Приобретение практических навыков по применению команд для работы с файлами и каталогами, по управлению процессами, по проверке использования диска и обслуживанию файловой системы.

Задачи лабораторной работы

- 1 Изучить возможности Midnight Commander
- 2 Изучить редактор Midnight Commander

Процесс выполнения лабораторной работы

Работа с Midnight Commander

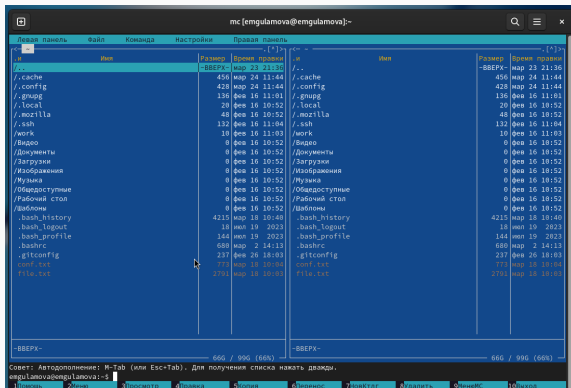


Рис. 1: Запуск mc

Работа с Midnight Commander

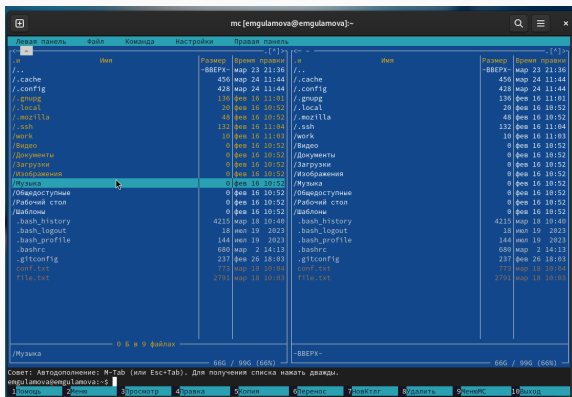


Рис. 2: Выделение

Работа с Midnight Commander

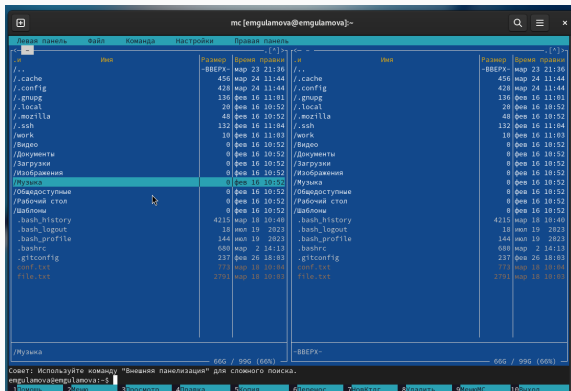


Рис. 3: Отмена

Работа с Midnight Commander

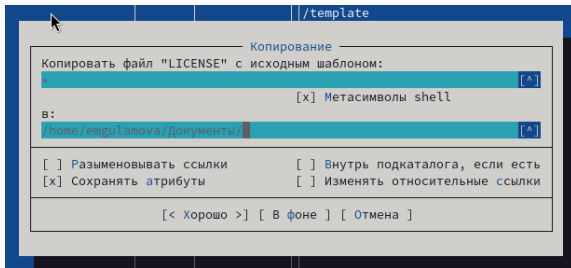


Рис. 4: Копирование

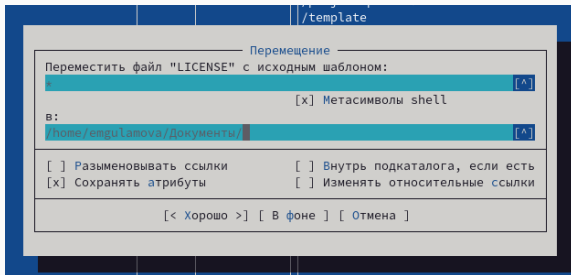


Рис. 5: Перемещение

Работа с Midnight Commander

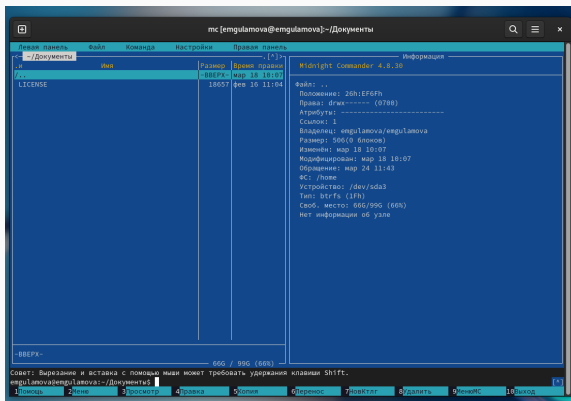


Рис. 6: Информация

Работа с Midnight Commander

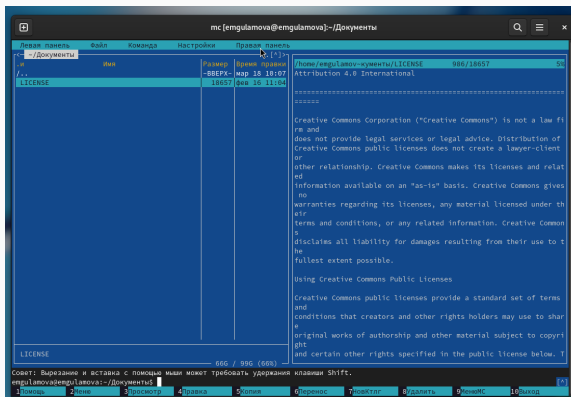


Рис. 7: Быстрый просмотр

Работа с Midnight Commander

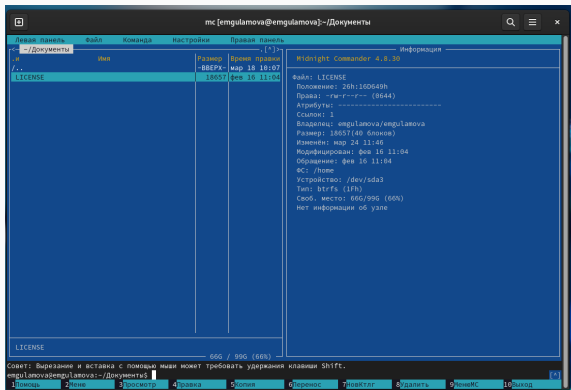


Рис. 8: Информация

emulmova@emulmova:/

Левая панель Файл Команда Настройки Правая панель

Дерево каталогов

Имя	Размер	Время правки
/	0	июл 21 2023
/afs	7	июл 21 2023
/bin	4896	мар 8 19:50
/boot	4888	мар 24 11:42
/dev	4750	мар 24 11:41
/etc	1444	мар 23 21:36
/home	7	июл 21 2023
/lib	9	июл 21 2023
/lib64	0	ноя 1 04:03
/lost-found	0	июл 21 2023
/media	8	мар 8 19:46
/mnt	0	июл 21 2023
/opt	0	мар 24 11:42
/proc	192	мар 24 11:42
/root	1380	мар 24 11:45
/run	8	июл 21 2023
/sbin	8	июл 21 2023
/srv	8	июл 21 2023
/sys	540	мар 24 11:44
/tmp	168	ноя 1 04:06
/usr	288	ноя 1 04:15
/var		

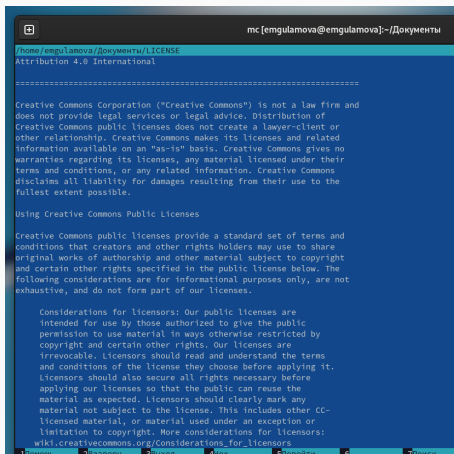
Совет: Некоторые клавиши не работают? Зайдите в Настройки/Определение клавиш.

emulmova@emulmova:/s

1.Помощь 2.Переск 3.Забить 4.Вызвать 5.Отмена 6.Перенос 7. 8.Джуглор 9.МенюМС 10.Выход

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Работа с Midnight Commander



The screenshot shows the Midnight Commander interface. The top bar indicates the user is 'mc [emgulamova@emgulamova]:~/Документы'. The current directory is '/home/emgulamova/Документы/LICENSE'. The file being viewed is 'Attribution 4.0 International'. The main pane displays the text of the license, which includes a disclaimer from Creative Commons Corporation and a section titled 'Using Creative Commons Public Licenses'. The text is displayed in a monospaced font on a dark blue background.

```
mc [emgulamova@emgulamova]:~/Документы
/home/emgulamova/Документы/LICENSE
Attribution 4.0 International
=====
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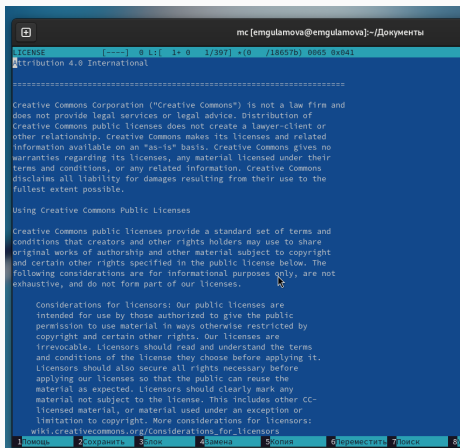
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Рис. 10: Просмотр содержимого текстового файла

Работа с Midnight Commander



The screenshot shows the Midnight Commander (mc) interface editing a file named 'LICENSE'. The top status bar indicates the user is 'emgulamova@emgulamova' in the '~/' directory. The file's metadata shows it is 0 L, 1+0, 1/397, with a size of 18657b and permissions 0065 0x041. The main text area displays the Creative Commons Attribution 4.0 International license text, which includes a disclaimer from Creative Commons Corporation and details about the public licenses. The bottom status bar shows navigation and editing options: 1.Помощь, 2.Сохранить, 3.Блок, 4.Замена, 5.Копия, 6.Переместить, 7.Панель, and 8.?

```
mc [emgulamova@emgulamova]:~/Документы
LICENSE  [----]  0 L: 1+0  1/397  +0  /18657b 0065 0x041
Attribution 4.0 International

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```

Рис. 11: Отредактируем содержимое текстового файла без сохранения результатов

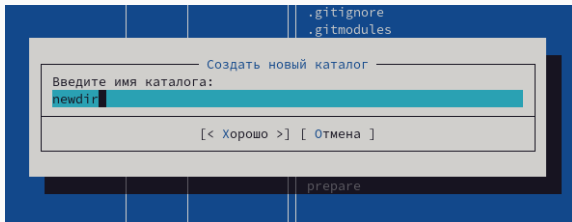


Рис. 12: Создание каталога

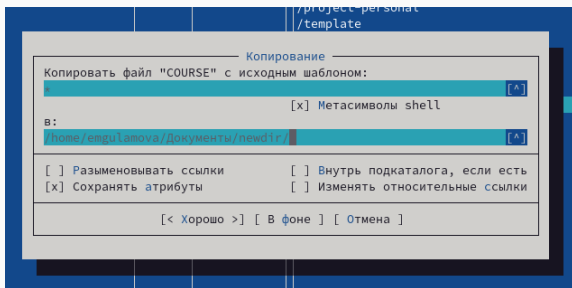


Рис. 13: Копирование в файлов в созданный каталог

Работа с Midnight Commander

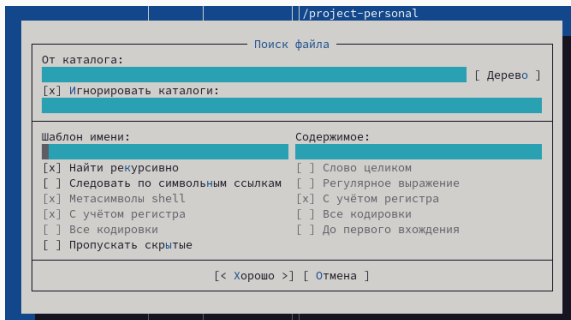


Рис. 14: Поиск файлов

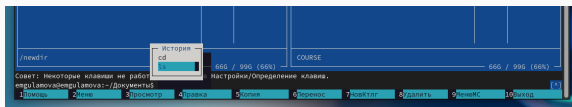


Рис. 15: История команд

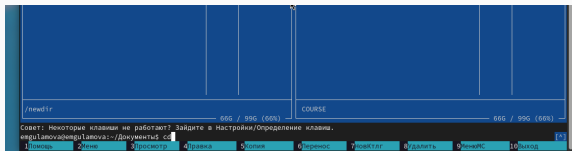


Рис. 16: Переход в домашний каталог

Работа с Midnight Commander



```
mc.ext.ini      [-----] 0 L: 1+ 0 1/1136 *0 /26909b/0035 0x023  [.*|X]
Midnight Commander 4.8 extension file
#
# Warning: The structure of this file has been completely changed with the version 4.0!
#
# All lines starting with # or empty lines are ignored.
#
# IMPORTANT: mc scans this file only upon first use or after editing it using the
# mc "Edit extension file" command (F8-c-e). If you edit this file in any other way
# while mc is running, you will need to press F8-c-e and exit the editor for your
# changes to take effect, or exit mc and start it again.
#
# Section name can be anything with following exceptions:
#   there are two reserved section names:
#       mc.ext.ini
#       Default
#   special name pattern:
#       include/xxxx
#   See below for more details.
#
# Section [mc.ext.ini] is mandatory. It contains file metadata.
# "Version" parameter is mandatory. It contains the file format version.
#
# Section [Default] is optional. It is applied only if no other match was found.
#
# Sections like [include/xxxx] can be referenced as "include=xxxx" from other sections.
# Section [include/xxxx] can be located as before as after sections that point to it.
#
# Sections are processed from top to bottom, thus the order is important.
# If there are more than one sections with the same name in this file, the first
# section will be used.
#
# [Default] should be a catch-all action and come last.
#
```

Рис. 17: Просмотр файла расширений

A screenshot of the Midnight Commander file menu. The window title is "menu" with a status bar at the top showing "1 t: 1*16 17/378 *(732 /11821b) 0010 0x00A" and a close button. The menu text is as follows:

```
shell_patterns=0

#####
# %% The % character
# %f The current file (if non-local vfs, file will be copied locally and
#           %f will be full path to it)
# %p The current file
# %d The current working directory
# %s "Selected files"; the tagged files if any, otherwise the current file
# %t Tagged files
# %u Tagged files (and they are untagged on return from expand_format)
# %v Run the commands and pipes standard output to the view command
# If %view is immediately followed by '|', recognize keywords
#      ascii, hex, nroff and unform
#
# If the format letter is in uppercase, it refers to the other panel
#
# With a number followed the % character you can turn quoting on (default)
# and off. For example:
# %f   quote expanded macro
# %if  ditto
# %of  don't quote expanded macro
#####

+ ! t t
| Do something on the current file
| CMD=%(Enter command)
| $CMD %f

+ t t
| Do something on the tagged files
| CMD=%(Enter command)
| for i in %t ; do
```

At the bottom of the window is a toolbar with 10 icons and their Russian labels: 1. Помощь (Help), 2. Сохранить (Save), 3. Поиск (Search), 4. Имена (Names), 5. Скопия (Copy), 6. Перенести (Move), 7. Повтор (Repeat), 8. Удалить (Delete), 9. Ненавс (Not visible), 10. Выход (Exit).

Рис. 18: Просмотр файла меню

Работа с Midnight Commander



Рис. 19: Конфигурация

Работа с Midnight Commander



Рис. 20: Внешний вид

Работа с Midnight Commander



Рис. 21: Настройки панелей



Рис. 22: Подтверждение



Рис. 23: Оформление

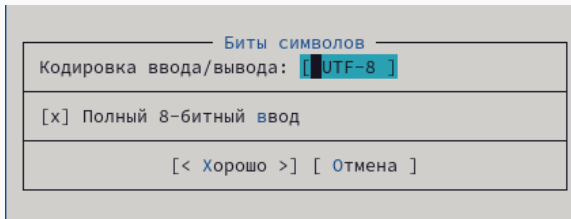


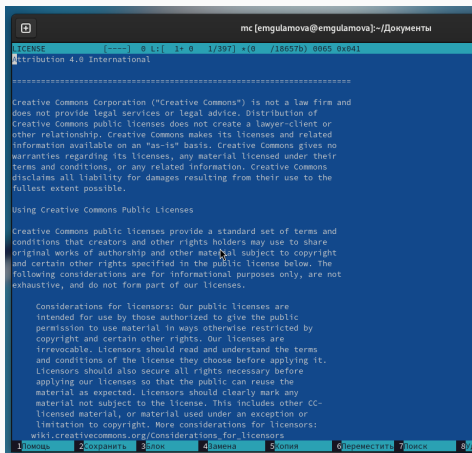
Рис. 24: Кодировка символов

Работа с Midnight Commander



Рис. 25: Распознавание клавиш

Работа с редактором Midnight Commander



The screenshot shows the Midnight Commander (mc) file editor interface. The title bar at the top reads "mc [emgulamova@emgulamova]:~/Документы". The status bar at the bottom shows various icons and labels: 1. Помощь (Help), 2. Сохранить (Save), 3. Блок (Block), 4. Замена (Replace), 5. Копия (Copy), 6. Переместить (Move), 7. Поиск (Search), 8. Выделить (Select).

The main text area displays the Creative Commons Attribution 4.0 International license text, which includes a disclaimer from Creative Commons Corporation and instructions on how to use the public licenses.

```
LICENSE [-----] 0 L: [ 1+ 0 1/397 ] * (0 /18657b) 0065 0x041
Attribution 4.0 International

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Рис. 26: Файл с текстом

Работа с редактором Midnight Commander

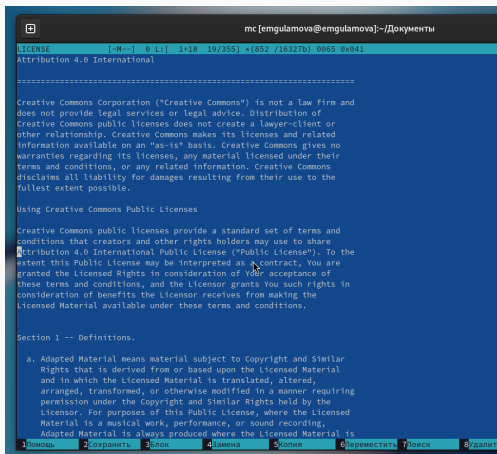


Рис. 27: Файл с текстом

Работа с редактором Midnight Commander

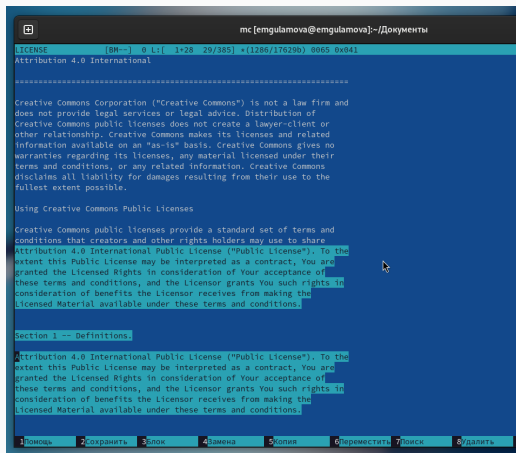


Рис. 28: Копирование фрагмента

Работа с редактором Midnight Commander

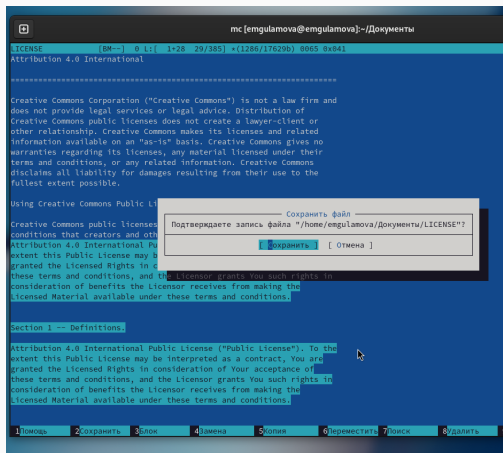


Рис. 29: Сохранение

Работа с редактором Midnight Commander

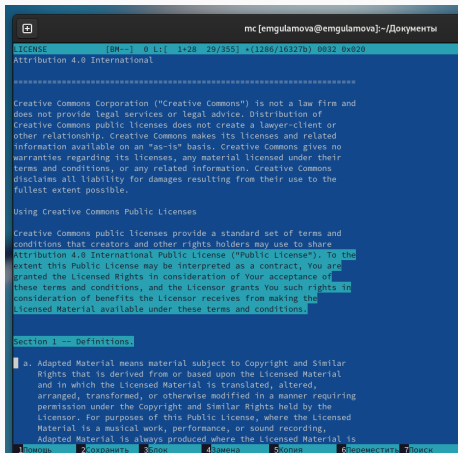


Рис. 30: Отмена

Работа с редактором Midnight Commander

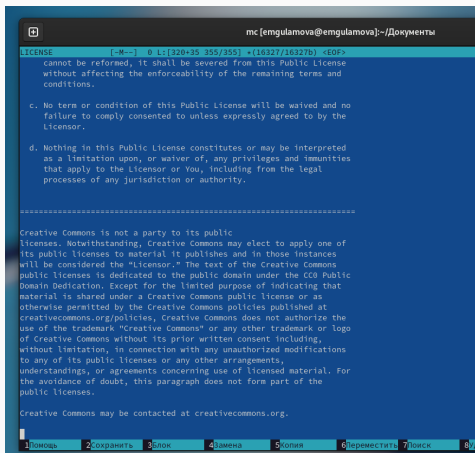


Рис. 31: Переход в конец файла

Работа с редактором Midnight Commander

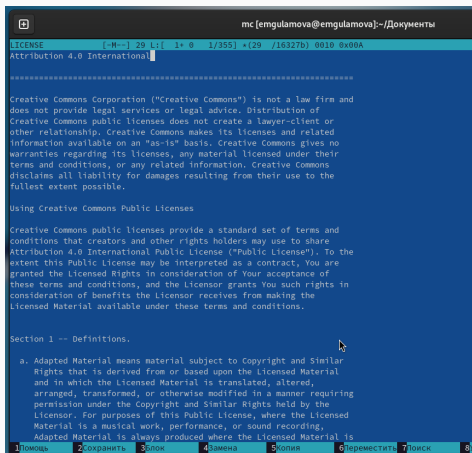
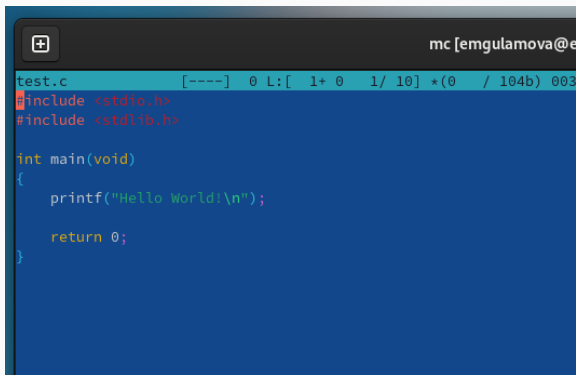


Рис. 32: Переход в начало файла

Работа с редактором Midnight Commander



The image shows a screenshot of the Midnight Commander (MC) file manager. The title bar at the top indicates the current directory is 'mc [emgulamova@e...'. The main window displays the contents of a file named 'test.c'. The code is as follows:

```
test.c      [----]  0 L:[ 1+ 0  1/ 10] *(0  / 104b) 003
#include <stdio.h>
#include <stdlib.h>

int main(void)
{
    printf("Hello World!\n");

    return 0;
}
```

Рис. 33: Файл с программой

Работа с редактором Midnight Commander

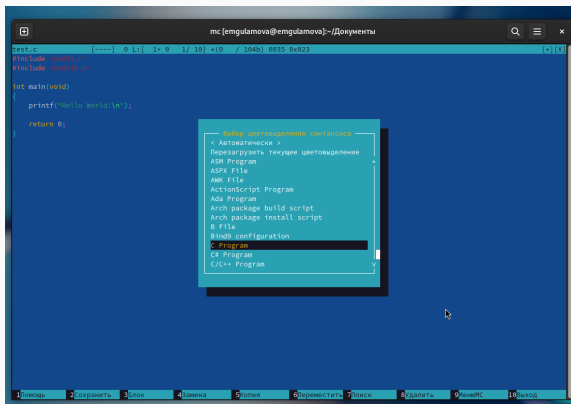


Рис. 34: Цветовыделение синтаксиса

Выводы по проделанной работе

В данной работе мы ознакомились с инструментами поиска файлов и фильтрации текстовых данных. А также приобрели практические навыки по управлению процессами.