

Командная оболочка Midnight Commander

Диана Шмавонян¹

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¹Российский Университет Дружбы Народов

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

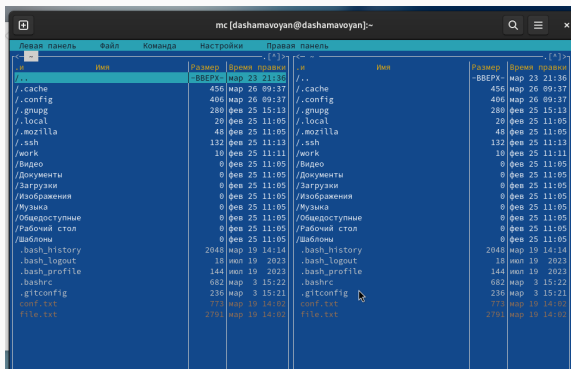


Рис. 1: Запуск mc

Работа с Midnight Commander

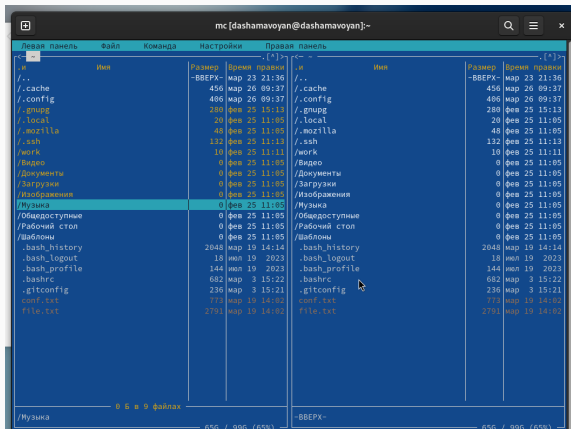


Рис. 2: Выделение

Работа с Midnight Commander

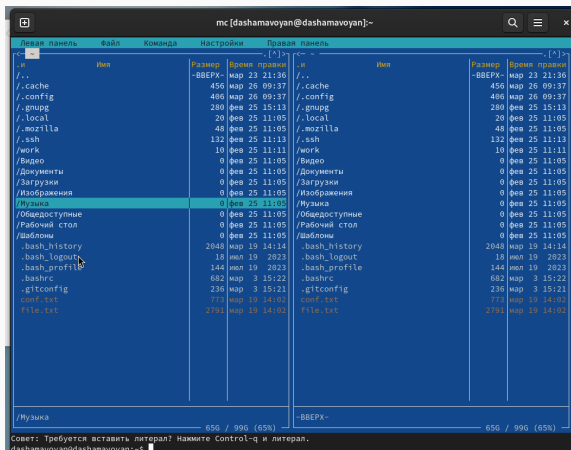


Рис. 3: Отмена

Работа с Midnight Commander

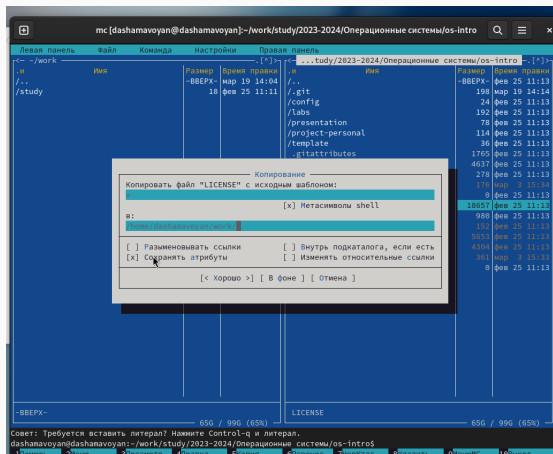


Рис. 4: Копирование

Работа с Midnight Commander

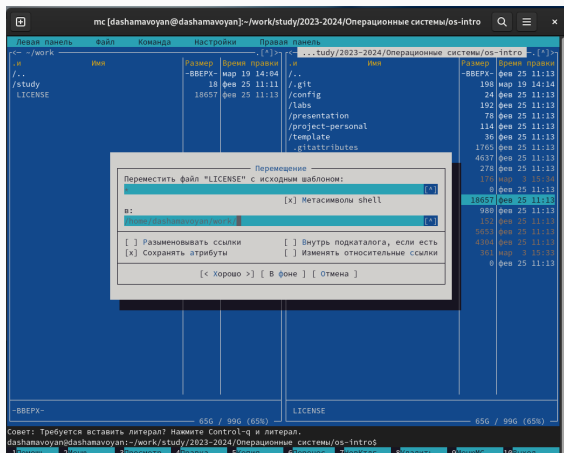


Рис. 5: Перемещение

Работа с Midnight Commander

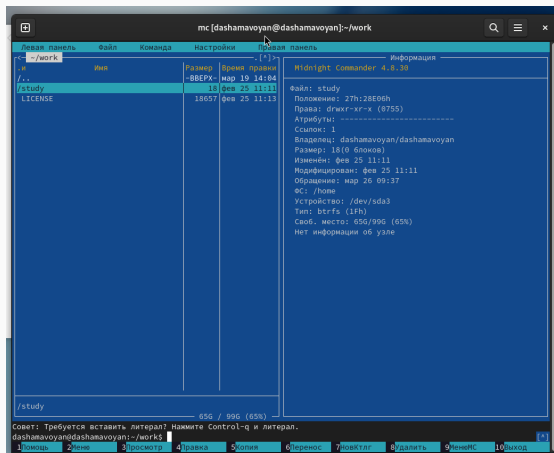


Рис. 6: Информация

Работа с Midnight Commander

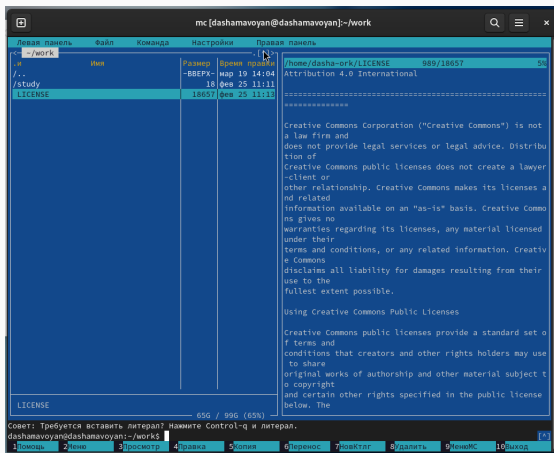


Рис. 7: Быстрый просмотр

Работа с Midnight Commander

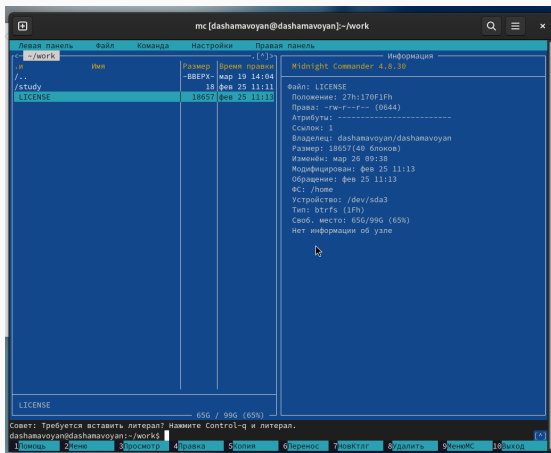


Рис. 8: Информация

Работа с Midnight Commander

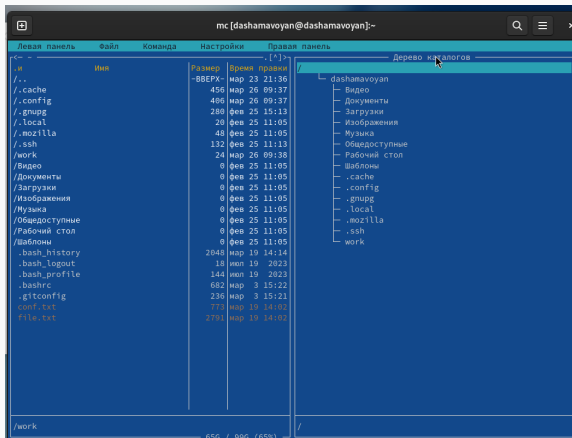
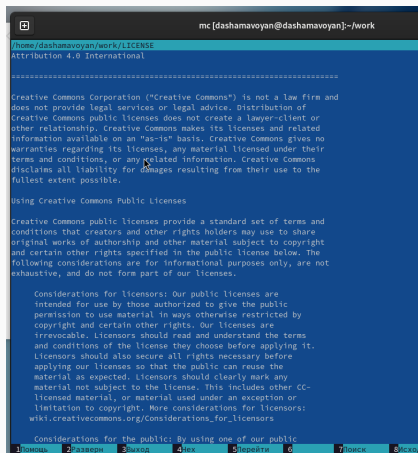


Рис. 9: Дерево каталогов

Работа с Midnight Commander



```
mc [dashamavoyan@dashamavoyan]:~/work
/home/dashamavoyan/work/LICENSE
Attribution 4.0 International
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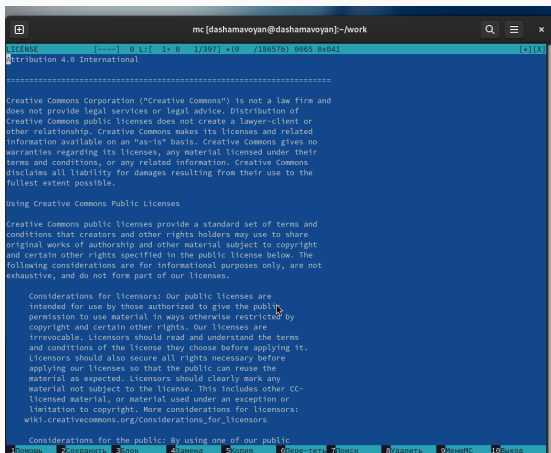
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1 Помощь 2 Развернуть 3 Выход 4 Желтый 5 Перейти 6 7 Поиск 8 Меню

Рис. 10: Просмотр содержимого текстового файла

Работа с Midnight Commander



The screenshot shows the Midnight Commander (mc) interface. The title bar indicates the user is 'dashamavoyan' in the directory '~/work'. The status bar at the top shows file details: 'LICENSE', '-----', '0 Li', '1+ 0', '1/397', '*(0 /18657b) 0065 8x041', and a cursor icon. The main text area displays the Creative Commons Attribution 4.0 International license text. The text is as follows:

```
LICENSE
----- 0 Li 1+ 0 1/397 *(0 /18657b) 0065 8x041
Attribution 4.0 International

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```

The status bar at the bottom contains the following icons and labels: 1. Помощь (Help), 2. Сохранить (Save), 3. Поиск (Find), 4. Вставка (Insert), 5. Лепка (Patch), 6. Пере-типы (Re-type), 7. Поиск (Find), 8. Удалить (Delete), 9. Очистить (Clear), 10. Выход (Exit).

Рис. 11: Отредактируем содержимое текстового файла без сохранения результатов

Работа с Midnight Commander

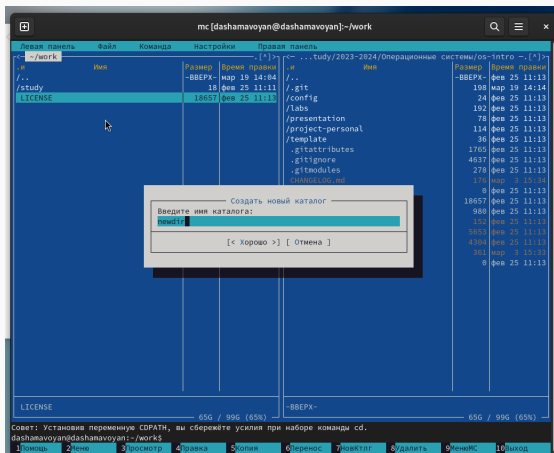


Рис. 12: Создание каталога

Работа с Midnight Commander

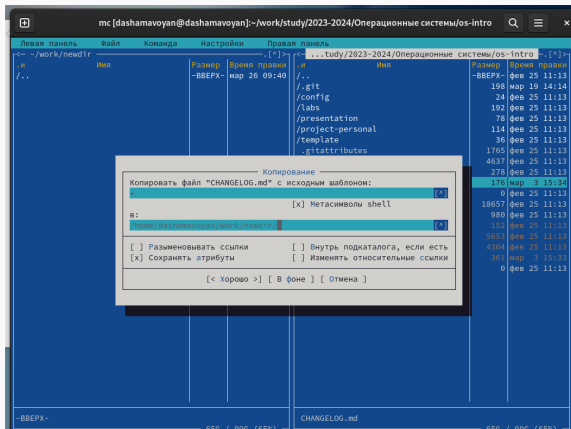


Рис. 13: Копирование в файлов в созданный каталог

Работа с Midnight Commander

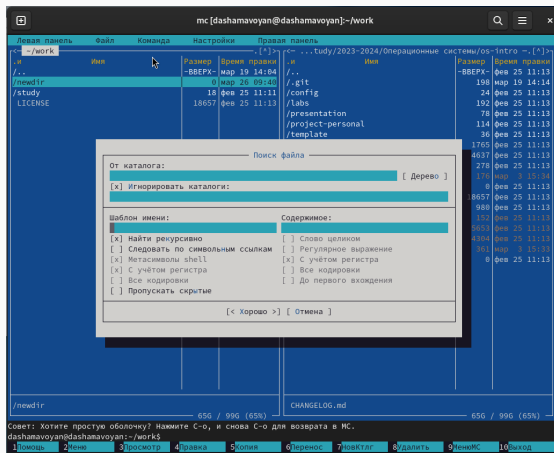


Рис. 14: Поиск файлов

Работа с Midnight Commander

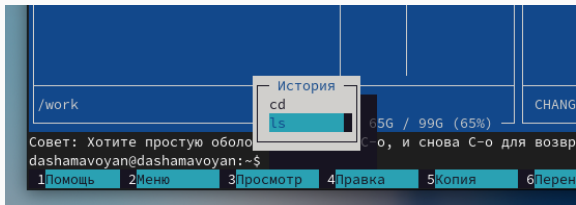


Рис. 15: История команд

Работа с Midnight Commander

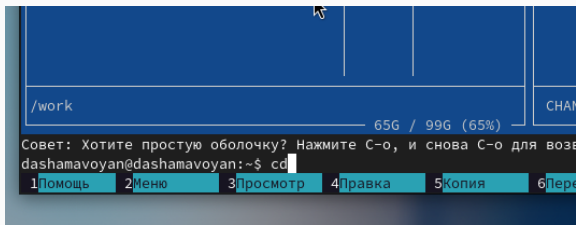


Рис. 16: Переход в домашний каталог

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 bottom showing "1: Помощь 2: Сохранить 3: Поиск 4: Имена 5: Скопия 6: Переименовать 7: Поиск 8: Удалить 9: Ненавс 10: Выход". The menu content includes options like "shell_patterns=0", "#####", "% The % character", "f The current file", "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)", "vview Runs the commands and pipes standard output to the view command", "If vview is immediately followed by 'l', 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) SCMD %f", "t t Do something on the tagged files CMD=:(Enter command) for i in %t ; do", and a status bar at the bottom with 10 numbered buttons: 1: Помощь, 2: Сохранить, 3: Поиск, 4: Имена, 5: Скопия, 6: Переименовать, 7: Поиск, 8: Удалить, 9: Ненавс, 10: Выход.

```
menu [-----] 1 t: 1*16 17/378 *(732 /11821b) 0010 0x00A [x]
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)
# vview Runs the commands and pipes standard output to the view command
# If vview is immediately followed by 'l', 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
0 Do something on the current file
CMD=:(Enter command)
SCMD %f

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

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

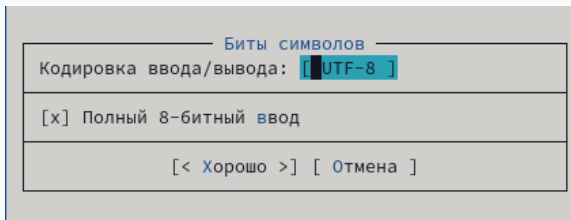


Рис. 24: Кодировка символов

Работа с Midnight Commander



Рис. 25: Распознавание клавиш

Работа с редактором Midnight Commander

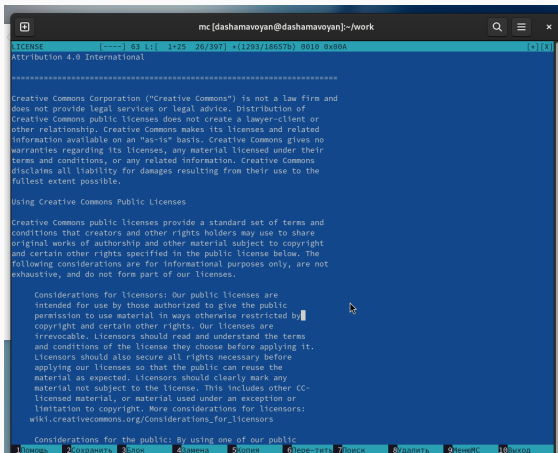
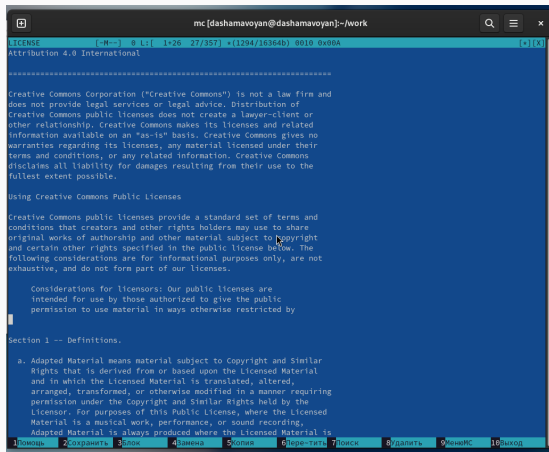


Рис. 26: Файл с текстом

Работа с редактором Midnight Commander



The screenshot shows the Midnight Commander (MC) interface. The title bar at the top reads 'mc [dashamavoyan@dashamavoyan]:~/work'. The status bar at the bottom displays various icons and labels: 1.Помощь, 2.Сохранить, 3.Блок, 4.Вставить, 5.Копия, 6.Пере-титл, 7.Поиск, 8.Удалить, 9.МенюМС, 10.Выход. The main text area displays the content of the 'LICENSE' file, which is the Creative Commons Attribution 4.0 International license text. The text is as follows:

```
LICENSE [M--] 0 L: 1+26 27/357 *(1294/16364b) 8010 0x00A (*) (X)
Attribution 4.0 International

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Рис. 27: Файл с текстом

Работа с редактором Midnight Commander

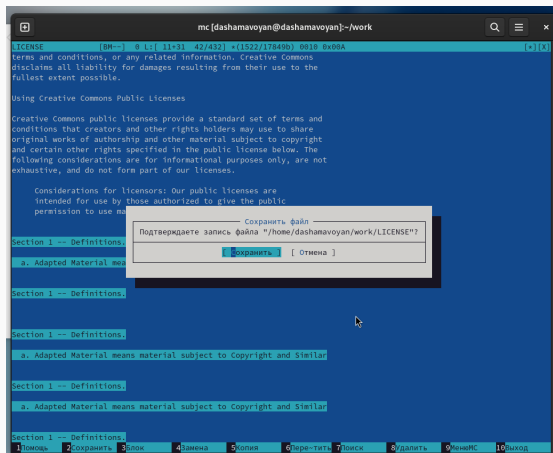


Рис. 29: Сохранение

Работа с редактором Midnight Commander

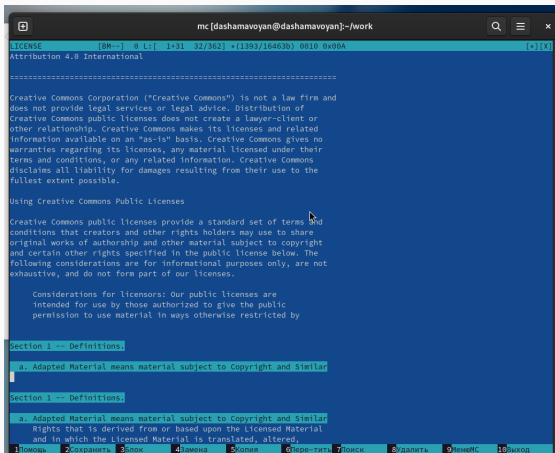


Рис. 30: Отмена

Работа с редактором Midnight Commander

```
mc [dashamavoyan@dashamavoyan:~/work]
LICENSE [025*37 262/262] x(10463/10463b) <EOF>
=====
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1.Помощь 2.Сохранить 3.Блок 4.Вставка 5.Копия 6.Пере-тв-т 7.Поиск 8.Удалить 9.Настройка 10.Выход
```

Рис. 31: Переход в конец файла

Работа с редактором Midnight Commander

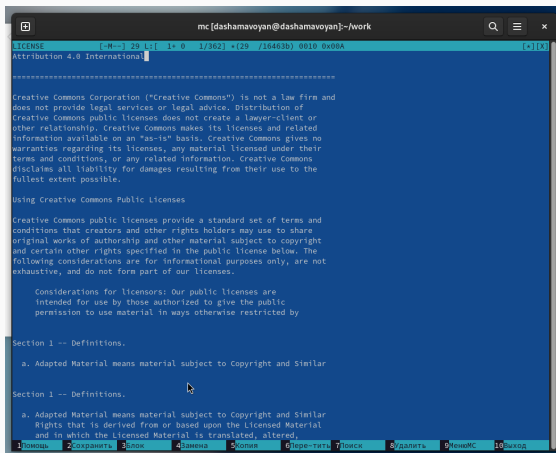
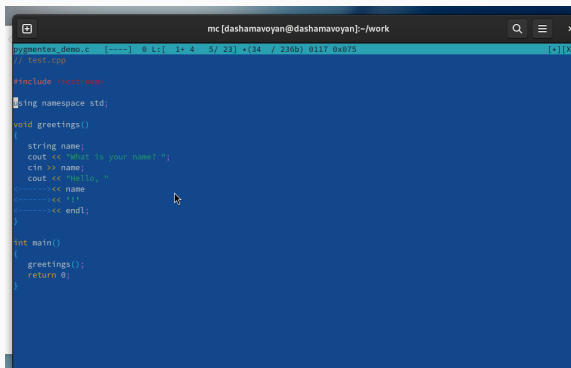


Рис. 32: Переход в начало файла

Работа с редактором Midnight Commander



The image shows a screenshot of the Midnight Commander (mc) file manager and editor. The title bar indicates the user is 'dashamavoyan@dashamavoyan' in the directory '~/work'. The editor is open to a file named 'test.cpp'. The code is written in C++ and includes a header for `<iostream>`, uses the `std` namespace, and defines a `greetings()` function and a `main()` function. The `greetings()` function prompts the user for their name and prints a greeting. The `main()` function calls `greetings()` and returns 0. The code is color-coded: keywords in blue, strings in red, and comments in green. A mouse cursor is visible over the code.

```
pygmentex_demo.c  [-----]  0 L: 1+ 4 5/ 23] +(34 / 236b) 0117 0x075 [•] [X]
// test.cpp

#include <iostream>

using namespace std;

void greetings()
{
    string name;
    cout << "What is your name? ";
    cin >> name;
    cout << "Hello, "
    <-----><< name
    <-----><< "!"
    <-----><< endl;
}

int main()
{
    greetings();
    return 0;
}
```

Рис. 33: Файл с программой

Работа с редактором Midnight Commander

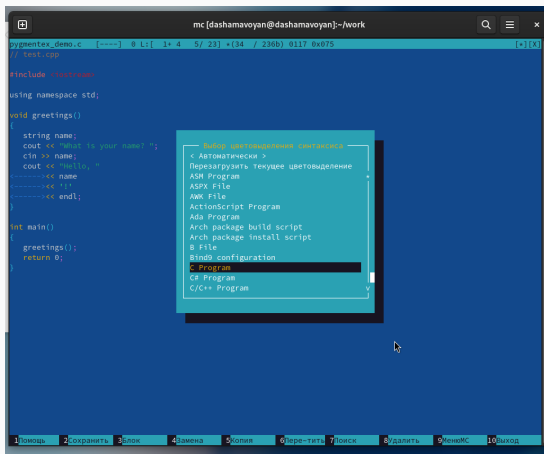


Рис. 34: Цветовыделение синтаксиса

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.