“Київський фаховий коледж зв’язку”

Циклова комісія Комп’ютерної та програмної інженерії

**ЗВІТ ПО ВИКОНАННЮ**

# **WORK-CASE №8**

з дисципліни: «Операційні системи»

**Тема: «Планування задач в Linux ОС»**

Виконали студенти

групи КСМ-13а

Команда BBC:

Петрик С.С,

Панчук О.С.

Перевірив викладач

Сушанова В.С.

Київ 2023

**Завдання №1  
виконав Панчук О.С.**

1. При роботі з серверними системами або на комп’ютерах, що досить

обмежені у ресурсах, досить часто графічну оболонку вимикають або взагалі

не встановлюють. Іноді виникають задачі, які здається, що без графічної

оболонки виконати не можливо, проте для ОС Linux це не так. Спробуйте

через термінал виконати наступні дії та поясніть за допомогою яких команд

(пакетів) їх можна виконати:

● Перегляд файлів та папок через файловий менеджер у терміналі.

To view files and folders through a file manager in the terminal, you can use the Midnight Commander (mc) program. This file manager provides a text-based interface and allows you to work with files and directories in a convenient way.

To install Midnight Commander, use the following command in the terminal:

sudo apt-get install mc

After installation, open Midnight Commander and enter the command:

mc

In the text file manager, you can use the arrows to navigate, use different keyboard shortcuts to copy, move, delete files and other operations

● Переглядати веб-сторінки через браузер, що працює у терміналі.

To view web pages in the terminal, you can use a text browser. One of the most popular text browsers is Lynx.

Installing Lynx:

Use the following command to install Lynx:

sudo apt-get install lynx

Using Lynx:

After installation, launch Lynx by entering the command:

lynx

You can then use the keys on your keyboard to navigate, enter URLs, and browse the web.

To exit Lynx, press the 'q' key.

● Перегляд електронної пошти в терміналі.

To view e-mail in the terminal, you can use a text-based e-mail client. One such client is Alpine.

Installing Alpine:

Use the appropriate command to install Alpine:

sudo apt-get install alpine

Using Alpine:

After installing Alpine, enter the command:

Alpine

This command will open the Alpine text interface where you can customize and view your emails. Alpine allows you to interact with your email using a text-based interface in a terminal.

● Слухати музику через термінал.

You can use a variety of tools to listen to music in the terminal. One of them is mpg123, a text-based music player that you can install and use with the following steps:

Installing mpg123:

Use the following command to install mpg123:

sudo apt-get install mpg123

Play music with mpg123:

After installation, use the command to play the audio file:

mpg123 your\_audio\_file.mp3

Instead of "your\_audio\_file.mp3", specify the path to the audio file of your choice. Mpg123 will play the music in the terminal.

To stop the playback, press the 'q' key.

● Скачувати торенти через термінал.

To download torrents through a terminal, you can use a tool such as Transmission-cli, which is a text-based interface for Transmission, a popular torrent download client.

Installing Transmission-cli:

Use the following command to install Transmission-cli:

sudo apt-get install transmission-cli

Downloading a torrent:

Use the transmission-cli command along with the URL of the torrent:

transmission-cli your\_torrent\_file.torrent

Instead of "your\_torrent\_file.torrent", specify the path or URL to the selected torrent file.

Navigation and control:

Use the arrow keys to navigate and select options. You can stop the download by pressing 'Ctrl + C'.

This is just one way. There are other tools, such as rTorrent, that can also be used through the terminal to download torrents.

● Планувати дії в календарі та нагадувати про них через термінал.

You can use the remind tool, which is a text-based calendar and scheduler, to schedule actions in your calendar and remind you of them through the terminal. To set up and use remind, follow these steps:

Install remind:

Use the following command to install remind:

sudo apt-get install remind

Create and edit events:

Create a text file to store your calendar, for example, mycalendar.rem. Add an event to this file, for example:

REM 2023-11-27 MSG Meeting with colleagues

Launch remind:

Use the remind command to view the reminder:

remind mycalendar.rem

Automatic reminders:

Use remind with at or cron to set up automatic reminders. For example, using at, you can add the following command to your file:

REM 2023-11-27 AT 09:00 +15 MSG Meeting with colleagues

This will create a reminder that will display a message 15 minutes before the meeting.

● Переглядати зображення в терміналі

To view images in the terminal, you can use a tool such as feh or imgcat. However, imgcat can only be accessed in the terminal in emulators that support it, such as iTerm for macOS.

Use feh to view images in the terminal:

Install feh:

Use the following command to install feh:

sudo apt-get install feh

Viewing an image:

Use the feh command to view an image. For example:

feh your\_image.jpg

Instead of "your\_image.jpg", specify the path to the image of your choice.

To use imgcat (usually available in terminals on macOS):

Using imgcat:

Use the imgcat command to display the image in the terminal. For example:

imgcat your\_image.jpg

Again, instead of "your\_image.jpg", specify the path to the image of your choice.

Both methods can be useful for quickly viewing images, especially if you need to quickly view files on a server or in a non-GUI environment.

**Завдання №2**

**виконав Петрик C.C.**

Here are a few of them and the corresponding commands to install and use them:

Nano is a lightweight text editor:

Install (if not already installed on the system):

sudo apt-get update # Update the package list (for Ubuntu / Debian)

sudo apt-get install nano # Install Nano

Opening the file for editing: nano file\_name

To save changes and exit, press Ctrl + O and then Enter. To exit, press Ctrl + X.

Vim is a powerful text editor with its own editing mode:

Installation:

sudo apt-get update

sudo apt-get install vim

Opening the file: vim file\_name

To exit the editor in Insert mode, press Esc, then type :wq and press Enter.

To monitor system processes and resources in the terminal, there are the following utilities:

htop - interactive system monitor, analogous to task manager, but with more functionality:

Install:

sudo apt-get update

sudo apt-get install htop

Starting it: htop

Use the arrows on the keyboard to navigate, and the instructions at the bottom of the screen for the user to control the processes. To exit, press F10.

top - a simple system monitor:

Usually already installed on many systems.

Launch it: top.

Displays the main system resources and a list of processes. To exit, press the q key.

These tools allow you to work efficiently with text and monitor system resources in the terminal.

**Завдання №3**

**виконав Панчук О.С.**

3. Задачі, щоб підняти настрій посеред робочого процесу ☺ – так звані

«пасхалки» (нажаль підтримуються не всіма дистрибутивами):

● Якщо Ви мрієте про подорож, то термінал може Вам показати

зображення парового локомотиву з вагоном (гарний натяк на дорогу).

● Якщо Ви фанат зоряних війн, то термінал може їх Вам показати.

● Якщо ви любите тварин, то термінал Вам може організувати діалог з

коровою.

● Можливо Ви знаєте якісь цікаві інтерактиви, які не знаю я, то поділіться.

1. Image of a steam locomotive with a car:

Use the sl command in the terminal. This is a command prompt for Steam Locomotive that animates a picture of a steam locomotive.

sl

1. Star Wars:

Use the telnet command towel.blinkenlights.nl to view the Star Wars animation in a terminal. This is an interesting Easter egg that tells you the story in ASCII art style.

telnet towel.blinkenlights.nl

1. Dialogue with a cow:

Use the cowsay and fortune commands to display a text dialog with a cow saying a phrase. It might look like this:

fortune | cowsay

Make sure you have the cowsay and fortune packages installed.

1. Other interesting interactives:

Use the cmatrix command to display a spectacular "rainbow" in the terminal.

Cmatrix

Use the asciiquarium command to render an aquarium with ASCII art in the terminal.

sudo apt-get install asciiquarium

asciiquarium

Use the slip command to display a sliding image on the terminal. This can also be interesting.

slip

These commands may vary depending on your distribution and terminal settings.

Висновки:

Using a terminal in Linux allows you to perform a variety of tasks without a graphical interface, which is especially important on server systems or computers with limited resources. These commands and programs allow you to perform actions such as viewing files, working with web pages, email, music, torrents, and calendar, all through the command line.