Work case 4

1. Made by Melikhov Danylo

- Дайте розгорнуте визначення таким поняттям як «пакет» та «репозиторій».

* Package:

In the context of software, a package is an archive or compiled unit of software that contains executable code, libraries, configuration files, documentation, and other resources necessary to install and run a program correctly on a particular platform or operating system. Packages are typically used to organize and distribute software, allowing for convenient installation and updating of programs across multiple devices.

* Repository:

A repository is a centralized or distributed repository where software packages are stored along with metadata and other information needed to manage and distribute them. Repositories usually contain not only the source code of packages, but also ready-to-install executables, dependency descriptions, program versions, etc. Repositories are used to organize access to software, update and distribute it, as well as to collaborate on projects between developers.

- Надайте короткий огляд існуючих менеджерів пакетів у Linux. Охарактеризуйте їх основні можливості.

* APT (Advanced Package Tool):

The primary and standard package manager for Ubuntu and its derivative distributions. Provides a simple and convenient way to install, update, and uninstall packages. Allows you to manage package dependencies and resolve conflicts between them.

* Snap (Snapcraft):

A packaging system that allows you to install packages with libraries that are independent of the system. Provides an isolated environment for packages that allows you to install and use different versions of programs on the same computer. Allows users to safely and easily install programs that can be updated automatically.

Made by Bumazhny Mykola

2. Визначте який менеджер пакетів використовує ваш дистрибутив Linux. Опишіть основні команди для роботи з ним:

My Linux distribution, Ubuntu, uses the APT (Advanced Package Tool) package manager to manage software packages. The basic commands for working with APT in Ubuntu include:

* Install package:

sudo apt install package\_name

This command installs the specified package and all its dependencies.

* Update the list of packages:

sudo apt update

This command updates the availability and version information of packages from all available repositories.

* Updates installed packages:

sudo apt upgrade

This command updates all installed packages to their latest versions.

* Uninstall a package:

sudo apt remove package\_name

This command removes an installed package, leaving its configuration files.

* Complete removal of the package:

sudo apt purge package\_name

This command completely removes the installed package along with its configuration files.

* Search for the package:

apt search search\_term

This command searches for packages that contain the specified search\_term in their names or descriptions.