“Київський фаховий коледж зв’язку”

Циклова комісія комп’ютерної та програмної інженерії

**ЗВІТ ПО ВИКОНАННЮ**

**ЛАБОРАТОРНОЇ РОБОТИ №3**  
з дисципліни: «Операційні системи»  
Тема: “Знайомство з базовими командами CLI-режиму в Linux”

Виконали студенти

групи БІКС-13

Команда JRSY: Андрущик П.С   
Бурбан Д.Ю.  
Перевірив викладач

Сушанова В.С.

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**Тема:** “Знайомство з базовими командами CLI-режиму в Linux”

**Мета роботи:**

1. Знайомство з базовими командами CLI-режиму в Linux.  
2. Знайомство з базовими текстовими командами в термінальному режимі роботи в різних ОС.

**Завдання попередньої підготовки** (робила студентка Андрущик Поліна)  
1. \*Read the short theoretical information for the laboratory work and make a small dictionary of basic English terms on the issues of assigning commands and their parameters.

|  |  |
| --- | --- |
| Термін Англійською | Термін Українською |
| A command the terminal | Команда терміналу |
| Scripting | Сценарії |
| Aliases | Псевдоніми |
| Variables | Змінні |
| Quoting | Цитування |
| Quotes, single quotes, back quotes | Лапки, одинарні лапки, зворотні лапки |
| Control statements | Контрольні твердження |

2. \*Define the following concepts:  
**A command interpreter** is a program for controlling a computer through text commands.  
**A shell** is a piece of software that is an "empty" expert system without the knowledge base for any particular application.  
**A command** is an instruction that gives the computer a task.

3. \*\*Answer the following questions:  
**What basic information does the prompt provide?**- user name (who is currently using the computer).  
-hostname (computer name).  
- current directory (where the user is in the file system).  
**Why does the command need parameters and arguments?**  
Parameters and arguments help pass data and instructions to software commands to perform specific operations on that data  
**What is the purpose of ls commands, what options and arguments can it have? Give 3 examples.  
Purpose of commands:** display of a list of files and directories.  
**Parameters:**  
-a: Show all files, including hidden ones.  
-l: Display detailed information about files.  
-h: Display file size in readable format.

**Arguments:** directory or file name.  
Example:  
ls: Display a list of files in the current directory.  
ls -a: Display all files (including hidden ones) in the current directory.  
ls -l /home/user: Display detailed information about files in the /home/user directory.

**How can command history be utilized, and what advantages does it offer?**  
Command history is a list of commands that have been entered in the command line. Benefits include time savings, reduced risk of errors, and aiding in better understanding one's work through previously used commands.

**What is the purpose of the echo command?**  
The echo command is used to display text on the screen.  
example:  
echo "Hello world!"

**Characterize the concept of a variable in the Bash shell, what types of variables does it support?**A variable is a container for storing data.  
Bash uses 2 types of variables:  
**Local:** Only available in the current shell session.  
**Environment variables:** Available to all child processes.

Data types:  
**Text strings:** The most common type.  
**Numbers:** integers and fractions.  
**Arrays:** Collections of data of the same type.

**What is the purpose of env, export and unset commands?  
env:**-Displays a list of environment variables.  
-Can be used to run programs with certain environment variables.  
**export:  
-**Adds a variable to the shell environment.  
-Variables added with export are available to child processes.  
**unset:  
-**Removes a variable from the shell environment

**What commands for getting help on commands in the terminal do you know?  
man** - general command help **help -** short help on the command  
**info -** detailed help on the command **apropos** - search for commands by keywords **whatis** - a brief description of the command  
  
**The main positions of the course of work:**