



# Programming in Python

## Lecture 1b - Basic Shell Commands

Instructor: Zhandos Yessenbayev

# File and Directory Manipulation

- **ls** - get the list of all the files or folders

eg.: *ls*, *ls -l*, *ls -a*, *ls directory1*

- **cd** - change the directory

eg.: *cd directory*, *cd ..*

- **mkdir** - create a directory if not already exist

eg.: *mkdir directory1*, *mkdir -p directory1/subdirectory2*

- **pwd** - Show the present working directory

eg.: *mkdir directory1*, *mkdir -p directory1/subdirectory2*

# File and Directory Manipulation

- **cp** - copy the files and directories from the source path to the destination path

eg.: *cp source\_file destination\_file, cp -r dir1 dir2*

- **mv** - move the files or directories (deletes source file)

eg.: *mv source\_file destination\_file*

- **rm** - remove files or directories

eg.: *rm file1, rm -r directory1*

# Displaying the file contents

- **cat** - concatenate and output the files on the terminal

eg.: *cat file1 [file2]*

- **less** - viewing the files (page up and down)

eg.: *less file1*

- **head** - print the first N lines of a file from the beginning

eg.: *head -n file1*

- **tail** - print the first N lines of a file from the end

eg.: *tail -n file1*

- **wc** - count the number of characters, words in a file

eg.: *wc file1, wc -l file1, wc -w file1, wc -c file2*

# Create and Edit Files

- **touch** - create or update a file

eg.: **touch** file1 [file2]

- **nano** - edit files

eg.: **nano** file1

- **echo** - move some data, usually text into a file

eg.: **echo** "Hello" > file1, **echo** "World!" >> file1

- **grep** - search for the specified text in a file

eg.: **grep** keyword file1

# Package Management

- **apt** - package manager

*sudo apt update* — update package repository information

*sudo apt upgrade* — upgrade packages

*sudo apt install package\_name1* — install packages

*sudo apt remove package\_name1* — remove package

*sudo apt search keyword1* — search for a package

**Thanks!**