

## UNIVERSITÀ DEGLI STUDI DI MILANO DIPARTIMENTO DI INFORMATICA

# 9. Interacting with the Operating System

#### **Terminal and Console**

A **terminal** is a text input and output environment, that displays a graphical interface and allows us to interact with the *shell* entering commands.

A console is a physical terminal, consisting of a single keyboard and monitor plugged into a dedicated serial console port on a computer.



#### **Shell and Command Line**

A command-line interface is any type of interface that is used to enter textual commands.

The shell is a command-line interpreter: it processes commands and outputs results.

```
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

demo@demo-VirtualBox:~$ touch456 gfg
touch456: command not found
demo@demo-VirtualBox:~$ touch gfg
demo@demo-VirtualBox:~$ touch gfg
```

### **Basic CLI Commands**

Windows

dir

help *or* [/?]

cd

cd <path>

mkdir folderName

echo sometext > filename.txt

cls

MacOS

ls

man

pwd

cd <path>

mkdir folderName

cat > filename.txt

clear

#### Virtual Environments

A virtual environment is a Python environment such that the Python interpreter, libraries and scripts installed into it are isolated from those installed in other virtual environments, and (by default) any libraries installed in a "system" Python, i.e., the one installed as part of your operating system.

create a new environment: conda create -n envName activate the environment: conda activate envName deactivate the environment: conda deactivate

