ANNEX A · PRACTICAL 5.8 · CLEAN IT, TIME IT, JUDGE THE TOOLS

Name: _____ **Date:** _____

Tramuntana Apps asks you to look after Marta's workstation: free disk space, check the start-up, and decide which maintenance tools deserve to stay. Work in `deb-lab`. Write the numbers here as you go; you need them for the report.

Part A — Clean the disk

1 **Before.** `df -h /` Size: _____ Used: _____ Avail: _____ Use%: _____
DONE WHEN The four numbers are written before you run anything else.

2 **Find the space.** `sudo apt install ncdu`, then `sudo ncdu /` (arrows, Enter, `q` to quit).
The three biggest directories in `/` and their sizes: _____
DONE WHEN You can say which one holds the system and which one holds logs and caches.

3 **Clean.** Run each line and write what it reports.
`sudo du -sh /var/cache/apt/archives` → _____ then `sudo apt clean` and the `du` again → _____

`sudo apt autoremove` — **read the list first.** Packages it wants to remove: _____
`sudo journalctl --disk-usage` → _____ then `sudo journalctl --vacuum-time=2weeks`
DONE WHEN Each command ran without an error and you wrote its result.

4 **After.** `df -h /` Used: _____ Avail: _____ Space freed: _____
DONE WHEN You have a before and an after. A small difference is a valid result.

Part B — Start-up and the drive

5 **Stopwatch.** `systemd-analyze` → total start-up time: _____
`systemd-analyze blame | head -5` → slowest unit: _____ time: _____
`systemd-analyze critical-chain` → last unit before the target: _____
DONE WHEN You can match each part of the first line with a runner of the boot relay of Unit 1.

6 **What starts at boot.** `systemctl list-unit-files --type=service --state=enabled` → how many? _____
Choose one. `systemctl status its-name`. Name: _____ What it does: _____
Does `deb-lab` need it? Why? _____
DONE WHEN One service is explained in your own words. **Do not disable anything.**

7 **TRIM.** `lsblk -D` → DISC-GRAN of your disk: _____ `sudo fstrim -v /` → it answers: _____

_____

`systemctl status fstrim.timer` → how often does it run? _____ Why can a virtual disk refuse TRIM?

_____
DONE WHEN You wrote the exact answer of `fstrim` and one sentence that explains it.

Part C — Judge the tools

8 **Five questions.** Install the second tool: `sudo apt install bleachbit`. Open it as a normal user, tick two or three items and press **Preview** (never Clean). Fill in the table.

	`ncdu`	**BleachBit**
1 What does it do that the system cannot already do?		
2 Who makes it? Where did it come from?		
3 What rights does it need?		
4 Can you undo what it does?		
5 Keep it or remove it? Why?		

And on Windows 11 (from the demo): free space with _____ · start-up list in _____ · repair system files with _____

DONE WHEN Every box has an answer, and each verdict has a reason.

9 **Act on your verdict.** Remove the tool you would not keep: `sudo apt purge name` and `sudo apt autoremove`.

DONE WHEN `dpkg -s name` says the package is not installed.

Hand in: `practical-5.8-surname.md` on Google Classroom before Wednesday 07/04: your numbers of parts A and B with one sentence each, the table of part C, and a three-line conclusion: what would you run every month on this machine?
Marks (10): part A 3 · part B 3 · part C 3 · clear report in Markdown 1. A verdict without a reason scores 0.

Exit ticket. Circle one answer.

1. What does `sudo apt clean` delete?
   a) Programs you do not use b) Old log files c) Downloaded package files already installed d) Your trash
2. Why is an SSD not defragmented?
   a) No head to move, and extra writes wear it b) It is too fast to measure c) It has no files d) It is read-only
3. What does TRIM tell a drive?
   a) Which files are big b) Which blocks are free and can be erased c) To spin down d) To compress data
4. On Windows, which command checks protected system files and repairs them?
   a) `cleanmgr` b) `dfrgui` c) `chkdsk` d) `sfc /scannow`
5. CCleaner 5.33 teaches that a maintenance tool is risky mainly because…
   a) it runs with administrator rights on many machines b) it is free c) it is old d) it uses too much RAM