Notes – lab 1

4 main topics for Licenta exam at the end of the 3 years

* Algorithmics
* OOP
* OS (2nd and 3rd semesters + networks(?))
* Data basis (3rd semester)

Website: cs.ubbcluj.ro/~rares/course/os

* We’ll use only Linux.
* No homeworks, tests though.
* You need to take at least 5 at a few practical tests (not at all of them ).
* Has 2 components:
  + C programming – how to create threads, processes and so on
  + SHELL programming – programming language of Linux OS
* Week 3 test: read a matrix from a file and sort it automatically (example); you don’t need >5
* 2nd test week 5: a SHELL test, you don’t need >5
* Week 8, 11 and 14 are practical tests, you NEED >5
* 12 Lab attendances
* >5 written exam
* You can take the written exam in the exam session and you can retake the practical exam you failed in reexamination.
* If you’re program doesn’t compile, it’s a 1. ☹
* You need to focus on debugging as well (you need to write code in iterations)
* There are tutorials on the website for everything. Go through them, study on your own and get ahead maybe.
* The UNIX is an open-source kernel and all distributions are just build on top of it. Both Windows and MacOs were initially built on UNIX, but now they have their own kernel. MacOs follows the same principles as UNIX, while Windows does not.
* Sudo is basically telling the OS to perform as administrator
* Apt ⬄marketplace on Windows; so on apt you can find all sorts of applications and tools and so on; sudo apt install ‘name’
* Sudo apt update
* Sudo apt upgrade
* Ctrl+C to stop anything ( like end task in task manager )
* TEACHING NOTES – compilation of various examples, merged into a pdf file. Check them out to recap.
* ssh username(you want to connect to)@ip/dns-entry
* ssh username@linux.scs.ubbcluj.ro