Introduction to Lab Sessions

Objectives

- To help students to better understand part of the theorical in the lectures
- To see the theories from implementation points of views
- To improve students' programming skills

Expectations

- Students try to understand lab materials and do exercises
- We will try to help students understand the materials and answer questions
- We expect more questions from students

Labs Evaluation

- Students need to pass 10/13 lab assignments to take the final exam
- All lab assignment will be graded (points/scores)
- Students need to get a certain score for each lab assignment to pass that assignment

Materials

- No textbooks
- Labs materials will be delivered through GitHub
- For each lab session:
  - Instruction will be posted on Tuesday
  - Submission deadline: Tuesday of the following week
  - You are recommended to finish (almost) each lab assignment during lab session

Students Submissions

- We use GitHub to manage your submissions
- We don’t accept any submission when TAs post the solutions for lab assignments.

Høgskolen i Østfold

Teaching Assistance (TA)

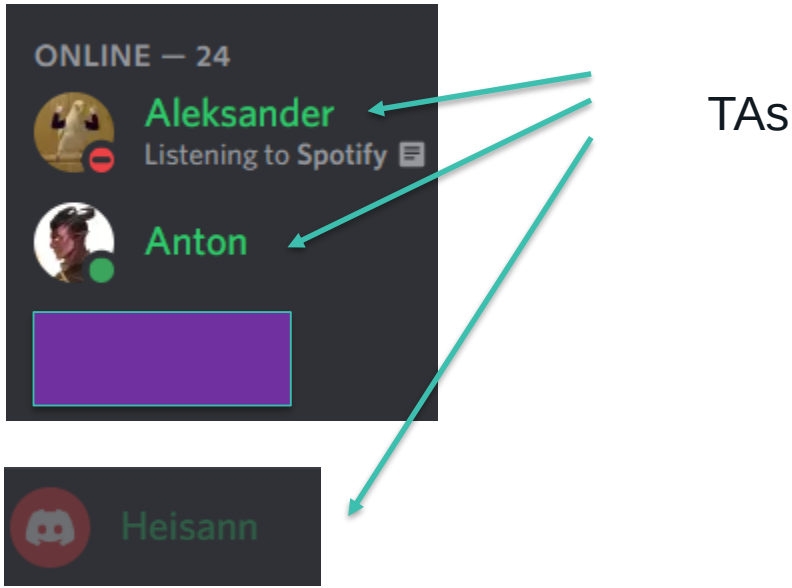
- Anton Kjus (antonk@hiof.no)
- Ole Kristian Eriksen Nysted (oknysted@hiof.no)
- Aleksander Vanberg Eriksen (aleksander.v.eriksen@hiof.no)

- TA office hours: 10am – 12pm every Tuesday, D1-038
- Available on Discord
- In order for us to work efficiently, you are highly recommended to go to TA office hours

Høgskolen i Østfold

Discord server

https://discord.gg/CCdYEN5cu5



Høgskolen i Østfold

Academic honesty

Students can discuss an assignment with other students and ask TAs or teachers for assistance. However, each student has to complete his/her assignment individually. Copying of another' assignment or copying code from the Internet is strongly prohibited. We assume that all programming and exercises throughout this course is your own. If we are not sure that the work you submitted demonstrates your clear understanding, we may request that you give an oral presentation.

Høgskolen i Østfold

Academic honesty

- Spreading of lab materials without agreements from the teacher in any mean is not allowed
- Posting the assignments to the Internet to seek for help is **strongly prohibited**

- Students are allowed to collaborate or ask teacher/TA for assistant but are not allowed to ask for help in the Internet. In case of collaboration, students have to write down to whom they work with in their codes or in their assignment reports

Plagiarism

- If plagiarism is detected, students will **FAIL** for the lab assignment with plagiarism

Høgskolen i Østfold

Labs Organizations

Part 1: C programming in Linux

- Lab 1: Warm-up with Linux and Gits
- Lab 2,3: C programming
- Lab 4: GNU complier and gdb

Part 2: Operating System

- Lab 5: Process
- Lab 6,7: Thread Programming
- Lab 8,10: InterProcess Communication (IPC)
- Lab 9: Shell programming
- Lab 11: Process Scheduling
- Lab 12: Memory management
- Lab 13: File system


Q&A