Exercise 01 - Introduction

Deadline

November 02, 2020 - 12:00 (UTC+1:00)

Submission Guidelines

- You must complete this exercise individually
- Send a single pdf file. Reasonable size, no scans or photos.
- Name and marticulation number must be present on the top right corner of the first page.
- Please send responses via email. Subject must be "Exercise01 - Submission"! If this is different you will get 0 points.
    - Submission address is: programminglab2.bit@uni-bonn.de

Grading (10 pts):

Task	1	2	3	4	5	6	7
Points	0	1	1	0	2	3	3

Setting Up Everything

To start off the course, the week will be dedicated to taking care of administrative tasks, introducing ourselves, and making sure everyone has access to GitLab.

Task 1 *Get Access to GitLab* (0 pts)

1. Login into https://gitlab-sysprog.informatik.uni-bonn.de/

- No Account/Forgotten Password?
    - Ask the university IT department for help https://gsg.informatik.uni-bonn.de
    - To apply for a new account: https://gsg.informatik.uni-bonn.de/doku.php?id=en:accounts:students:manage:lsi#apply_for_a_new_account

1. Send us an email containing a link to your GitLab profile page
2. We will then give you access to the PLAB2 information repository - https://gitlab-sysprog.informatik.uni-bonn.de/plabii2020/plab2_information

Task 2 *What is an Interpreter?* (1 pt)

Explain the difference between a compiler and an interpreter.

Task 3 *What is Python?* (1 pt)

Is Python a compiled or interpreted programming language?

Task 4 *What is Git?* (0 pts)

Please read chapters 1 and 2 of the pro git book: https://git-scm.com/book/en/v2.

Task 5 *Explain a VCS* (2 pts)

Explain the term "version control system" and how it relates to git.

Task 6 *Explain Git* (3 pts)

When using git, a file can reside in three different main stages or areas. Name and explain these stages.

Task 7 *Why Git?* (3 pts)

Git is incredibly useful in a software development setting. Give 3 examples of how git is beneficial to someone writing code for a project.