

# PGR107 – Python Programming

## Programming Project

Spring 2025

**Due: Sunday, 23 March 2025 23:59**

### Guidelines and warnings:

- Use your own approach and algorithm to write the code.
- You **are not allowed** to use topics not yet covered in the course, such as *object-oriented programming* and *classes*, etc.
- Any plagiarism, including copying from the internet or other groups, will result in an automatic **FAIL** for the project for all involved parties (both the giver and the receiver).
- **Each group** must submit one python file (e.g., **project.py**).
- It is your responsibility to make sure that your code is **error-free** for any input provided by the user.
- Submissions must be made electronically via Canvas.

### Project description

#### Multiple Choice Quiz

The goal of this project is to create a multiple-choice quiz using Python. The quiz consists of **10 questions** about Norway, as provided in the appendix.

When the user runs the program, they should first be prompted to enter a **username** and **password** as login credentials. Use the following login details:

- **Username:** PGR107
- **Password:** Python

The login information should be stored in a **dictionary** and passed to a function called ***login\_info***, along with the **username** and **password** entered by the user. This function should check whether the login is successful.

- If the login is **successful**, the first quiz question should be displayed, and the user should enter their answer. After answering, the second question should appear, and so on.
- If the login is **unsuccessful**, the program should display the message: **"Invalid username and/or password."** The user must then re-enter their credentials until they are correct and login is successful.

At the end of the quiz, the program should:

- Display the **number of correct** and **incorrect answers**.
- For each incorrect answer, the program should display:
  - The **question** itself.
  - The **user's incorrect answer**.
  - The **correct answer**.

Lykke til 😊

## Appendix

**Q1.** What is the capital of Norway?

- a. Bergen
- b. Oslo**
- c. Stavanger
- d. Trondheim

**Q2.** What is the currency of Norway?

- a. Euro
- b. Pound
- c. Krone**
- d. Deutsche Mark

**Q3.** What is the largest city in Norway?

- a. Oslo**
- b. Stavanger
- c. Bergen
- d. Trondheim

**Q4.** When is constitution day (the national day) of Norway?

- a. 27<sup>th</sup> May
- b. 17<sup>th</sup> May**
- c. 17<sup>th</sup> April
- d. 27<sup>th</sup> April

**Q5.** What color is the background of the Norwegian flag?

- a. Red**
- b. White
- c. Blue
- d. Yellow

**Q6.** How many countries does Norway border?

- a. 1
- b. 2
- c. 3**
- d. 4

**Q7.** What is the name of the university in Trondheim?

- a. UiS
- b. UiO
- c. NMBU
- d. NTNU**

**Q8.** How long is the border between Norway and Russia?

- a. 96 km
- b. 196 km**
- c. 296 km
- d. 396 km

**Q9.** Where in Norway is Stavanger?

- a. North
- b. South
- c. South-west**
- d. South-east

**Q10.** From which Norwegian city did the world's famous composer Edvard Grieg come?

- a. Oslo
- b. Bergen**
- c. Stavanger
- d. Tromsø