

MEK1300 – Programming 1

Programming Project 2

Fall 2020

Due: Sunday, 15 November 2020 23:59

Guidelines and warnings:

- Use your own approach and algorithm to write the code.
- You **are not allowed** to use concepts and topics we have not covered in the course such as object-oriented programming and classes, etc.
- Group members should discuss the problem together to come up with a solution (an algorithm) before writing the actual code.
- Any copies from the internet or other groups will give you an automatic **FAIL** for the project for every involved party (the giver and the taker).
- **Each group** must submit **one python file** (e.g. **project2.py**) at the end including the source code of the project.
- It is your responsibility to make sure that your code is **error-free** for any input provided by the user.
- The submission will be done electronically to Canvas.

Project description

Multiple Choice Quiz

The aim of this project is to make a multiple choice quiz using Python. The quiz contains 10 questions about Norway as attached in the appendix. When the user runs the code, first he/she should be asked to enter a username and password as login information (consider **MEK1300** as the username and **Python** as the password). Note that the login information should be kept in a dictionary, and the dictionary should be passed to a function called ***login_info*** along with the username and password entered by the user to check whether or not the login is successful. If yes, the user should see the first question and should be able to enter his/her answer to that question. Then, the second question should be visible to the user to answer, and so on. If the login is not successful, the message “**Invalid username and/or password**” must be printed and the user should be able to enter a new username and a password until they are valid and the login is successful. At the end, the program should report the number of correct and wrong answers for the quiz and print the correct answers for those questions answered wrong by the user. In order to print the correct answers for those questions, the program should print the question itself, the (wrong) answer entered by the user as well as the correct answer for that question.

Hint 1: Use **lists** to keep information regarding the questions and answers.

Hint 2: Use **functions** to have an organized code.

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. 27th May
- b. 17th May**
- c. 17th April
- d. 27th 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 famous composer Edvard Grieg come?

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