



King Fahd University of Petroleum & Minerals

College of Computer Sciences and Engineering

Information and Computer Science Department

SWE 206: Introduction to Software Engineering (2-3-3)

Second Semester 2022-2023 (222)

Lab03 Version Control System (GIT)

Objectives:

To gain experience with:

- Using Git for Version Control Systems

Individual Task:

1. Clone the section repository found in <https://github.com/AlothmanTeaches>
2. Make sure the cloned repository is working fine in your machine.

Tasks:

Work in teams of 2.

Note: The character at the start of each task resemble the computer who needs to do this step namely Computer 1(A) and Computer 2(B)

1. A: Create a java file named Sorter.java
2. A: initialize the git repository at the directory
3. A: add and commit your file
4. A: Create a repository at github and push your file to github
5. B: Clone the repository
6. Do the following separately (you may look the details of the algorithms)
 - a. A: Create and implement a method called selectionSort(Array)
 - b. B: Create and implement a method called insertionSort(Array)
7. A: Add, commit and push your files to the repository
8. B: Add, commit, pull and then push your files to the repository
9. B: Create a method named sort(array) that calls insertion sort
10. B: Add, commit and then push your work
11. A: Create a method named sort(array) that calls selection sort
12. A: pull and solve any conflicts

13. A: Push your changes

Submission Details:

1. Submit **one single PDF** file (in Blackboard) that has the following structure:
 - a. Cover page has the course name, lab number, lab topic, group section and number, students' names, and IDs.
 - b. Table shows who is computer A and who is Computer B and their github account
 - c. The link for your repository

Additional Reading and tasks:

1. Pro Git book (<https://git-scm.com/book/en/v2>)
2. Have fun playing <https://learngitbranching.js.org/>