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)

GIT DEMO

Objectives:

From the First Device

1. Create a class & main method.
2. Open the terminal to the folder where the class is and initialize git using this command.
   - `git init`
3. Add the java file for git to track it using the command.
   - `git add <filename>.java`
4. Commit the added file using the command.
   - `git commit –m "commit message"`
5. Write a method to read the list of students.
6. Add the student list text file for git to track it using the command.
   - `git add "Student List.txt"`
7. Commit the new changes to the file using the command:
   - `git commit –m "commit message" –a`

   Note: -a is put in here to commit all tracked changed file on one commit. Some scenarios may require you to not use -a and choose which file to commit instead.
8. Create a branch and call it "randomizer" using the command:
   - `git branch randomizer`
9. Move to the "randomizer" branch by checking it out using the command:
   - `git checkout randomizer`
10. Write the method that create a random groups

11. Commit your changed using the command:
    - `git commit -m <"commit message"> -a`
12. Checkout the master branch using the command:
    - `git checkout master`

    depends on, the default branch may be called main or master.
13. Merge the randomizer branch to the master branch using the command:
    - `git merge randomizer`
14. Open GitHub, Sign in, create a new repository, follow the steps in the screen to push your existing local repository into GitHub

After following those steps, the master branch will be renamed to main to follow GitHub default naming scheme.

From the second Device

15. Open a PowerShell/Terminal/CommandLine window into the folder you would like to clone the repo into.
16. Clone the repo using the command:
    - `git clone <http link for the repo found in the repo page>`
17. Add some code
18. Commit your changes using the command:
    - `git commit -m <"Commit Message"> -a`
19. push the changes to the remote repo using the command:
    - `git push`

From the first device

20. pull the changes using the command:
    - `git pull`
21. resolve any merge conflict if needed