EECS 2311 Lab Test 1

Monday, January 26, 2026
Duration: 90 minutes
Instructor: Hung Viet Pham

In this lab test, you will need to show your understanding of Git and GitHub. Remember that your screenshot must include your command and the output, you will get zero if you do not include the output of running the command.

I.   Preparations

Create a remote repository named **2311LabTest1**.
Provide a screenshot of your repository list. The screenshot must showyour GitHub username. **This is P1.**

Note: In the following steps, you shouldn't have any issues as you are using your own GitHub. However, when you git clone, git fetch, git pull, or git push to a remote repository using HTTPS URLs on the command line, git may ask you for a username and password. When Git prompts you for your password, enter your personal access token. To get a personal access token, go to **Settings -> Developer Settings -> Personal Access Tokens -> Generate new token.**

II.   Tasks using the command line

The following tasks must be finished through the command line:

1. Clone your remote repository to your local machine. Provide screenshots showing
    a. the command you used to clone your remote repository (it's ok if the repository is empty). This is **Task 1.1a**.
    b. The output of running git status, it should show that you are on the main branch. This is **Task 1.1b**.
2. Create a file ***named 2311LabTest1-command.txt*** under the repository you just cloned, and provide a screenshot showing the command and output you used for each of the following tasks
    a. Add the file so that Git can keep track of it. This is **Task1.2a**.
    b. Change the content of the file by adding *"This is a new line"* to it. Then use a command to show the changes you make to the file. Provide a screenshot of the output. This is **Task1.2b**.
    c. Commit this change with the message *"create 2311LabTest1-command.txt and add a line"*. This is **Task 1.2c**.

d. Use a command to display the most recent commit message and details. This is **Task 1.2d**.

e. Push the change to your remote repository. This is **Task 1.2e**.

3. Go back to your GitHub page, take a screenshot of your *2311LabTest1* repository, which should show the file (*2311LabTest1-command.txt*) you just created, and the commit message. This is **Task 1.3**.

4. Create a remote branch through the command line, named *labtest1-command*, and show the result of running *git branch -a* (there should be a remote branch namely *labtest1-command*). This is **Task 1.4**.

5. Modify the file *2311LabTest1-command.txt* so that it contains the content *"This is the second line"*, and show the result of running *cat 2311LabTest1-command.txt*. This is **Task 1.5**.

6. Commit and push the change of file *2311LabTest1-command.txt* to the remote branch *labtest1-command* (not main!). Provide screenshot(s) showing the commands you use and their output. This is **Task 1.6**.

7. Rename the *labtest1-command* branch to *labtest1-command-renamed*. Provide a screenshot showing the branch renaming process and confirm the branch is renamed both locally and on the remote repository. This is **Task 1.7**.

8. Delete the *labtest1-command-renamed* local branch. Then, verify the branch list with *git branch -a*. Provide screenshots of the deletion process. This is **Task 1.8**.

III. Tasks using EGit

The following tasks must be finished through EGit:

1. Clone your remote repository using EGit. Provide a screenshot of your *Eclipse's Project Explorer*. It should show your repository with a line of text in orange indicating your current branch (which normally should be main). This is **Task 2.1**.

2. Create a file named *2311LabTest1-egit.txt* under the repository you just cloned, commit, and push this change to your remote repository.

a. Provide a screenshot showing how you make the commit (*The Git Staging window*). This is **Task 2.2a**.

b. Provide a screenshot of your *Push Result window* in Eclipse. This is **Task 2.2b**.

3. Go back to your GitHub page, take a screenshot of your *2311LabTest1* repository, it should showthe file (*2311LabTest1-egit.txt*) you just created, and the commit message. This is **Task 2.3**.

4. Delete the remote branch that you created in section 1.2.4 with EGit, named *labtest1-command-renamed*, and provide a screenshot of the *Push Result window* in Eclipse. This is **Task 2.4**.

5. Modify the file *2311LabTest1-egit.txt* so that it contains the content *"Add line using EGit."*, commit, and push the change to the remote branch main. Provide a screenshot of your *Push Results window* in Eclipse. This is **Task 2.5**.

IV. Submition

Create the file named *2311labtest1-firstname-lastname.pdf*. Replace firstname with your first name, and replace lastname with your last name. Follow the format (in the file) below:

```
2311 Labtest 1
First name: XXX
Last name: XXX
Student ID: XXX

P1:
// place your screenshot here

Task 1.1a:
// place your screenshot here
...

Task 2.5:
// place your screenshot here
```

V. Marking rubric

Tasks	Mark
P1	2
Task 1.1a	4
Task 1.1b	4
Task 1.2a	2
Task 1.2b	2
Task 1.2c	2
Task 1.2d	3
Task 1.2e	3
Task 1.3	4
Task 1.4	4
Task 1.5	4
Task 1.6	6
Task 1.7	5
Task 1.8	5
Task 2.1	10
Task 2.2a	5
Task 2.2b	5
Task 2.3	10
Task 2.4	10
Task 2.5	10
Total	**100**