Homework 1

This homework will cover terminal commands and git basics. For some of the questions you will be asked to push certain changes and that is what we will be checking for. For other problems, you will be asked to paste the commands/results that you see in your terminal.

1. Navigate to your forked project in local machine.
2. Checkout your student/lastname branch. From your terminal, create a file name **acknowledgement\_lastname.txt**  in the directory called **Lectures/week1.**
3. Add the following text “I YOUR NAME acknowledge that” to the file using your terminal.(you can do both file creation and adding text to the file at one go).
4. Create a new directory named **homework** inside **week1** directory and move the acknowledgement\_lastname.txt file inside this directory.
5. View the contents of the file in your terminal. Add a screenshot to Week1\_Homework.doc showing the commands and the content of the file in your terminal. A screenshot of a computer

   Description automatically generated with medium confidence
6. Commit your work (2 files1) your newly created text file 2) Week1\_homework.doc with the screenshot) after staging with a commit message “Added acknowledgement file” & “Completed step 5 in homework”
7. Create a new branch called **homework\_branch**, and checkout your new branch (homework\_branch).
8. Create a file **acknowledgement\_lastname.txt** filein a directory **week1/homework** directory. Add the following text “ this assignment is my own work”. Notice that adding a text to a file from the terminal and opening the file to type the text has the same result!
9. Commit your work after staging with a message “Appending text to acknowledgement file from homework branch”.
10. Switch back to your branch student/lastname.
11. Try to merge the changes from homework\_branch into student/lastname branch, and resolve the merge conflicts. The final version of your file should have the following text: “I YOURNAME acknowledge that this assignment is my own work”. Why did we see merge conflicts? Answer below.

I personally did not see any merge conflicts. However, a common cause for a merge conflict is when you have the same line of code, changed in two commits, on two different branches. Git won’t know which change is preferable. Another common cause for a merge conflict is when you have the same file modified in one branch and deleted in the other. Git will also not know what change you want to push and will ask.

1. Push your code to your forked project on branch student/lastname, specifying the branch and the remote. What is your remote name? Answer below.

The remote name is origin, of the forked project : https://github.com/Rabi-ya/YearUpJava/tree/student/Sharafat

1. Navigate back to your home directory using the shortcut symbol. Paste the command you ran below.

Cd ~

1. Commit & Push the week1\_Homework.doc file from student/lastname branch after completing steps 11, 12 & 13.