# SEG 2105: Introduction to Software Engineering (Lab)

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MON : 4:00 PM – 5:20 PM

# Lab 1 Requirements

- You need to finish the lab tasks, to obtain the lab mark.
- Before you start:
  - Download the tutorial of lab 1 from BrightSpace.
  - Install git in your computer.
  - Create an account in github.com

To accomplish the lab's tasks, you may use any materials beside the lab tutorial; git manual page, google, youtube etc.

# Task 1

- Create a new repository in your github account:
  - name it "SEG2105_LAB1_**YOURNAME**".
  - Do not change any default settings.
- Under Quick setup, click on creating a new file.
  - Create a file and name it **YOURNAME.txt**
  - add your name and your email to YOURNAME.txt.
  - In the Commit section: under Commit new file enter "**my first commit**" then click on

    **Commit new file**

# Task 2

- In Task 1, you have created a remote repository because it is saved in git remote server.

- Now use git commands (from your computer) to download, or clone, a copy from remote repository to your computer.

- After you clone the remote git repo, use git commands to show you the log (your commits).

- In your computer, add the line " **I am in my local git repo.**" at the bottom of the file to the content of YOURNAME.txt

- Then( in your computer), add a new file and call it "**local_file.txt**".

- add the line " **my first commit hash code is : ###########**" at the bottom of the file to the content of local_file.txt.txt.

- Make sure that changes above are committed in local git repo.

# Task 3

- Use git commands to update the remote repository with the changes that you have done to your local repository.

# Task 4

- Create a branch in your local repository
  - Call it "**backup_branch**"
- Switch to backup_branch.
- Use git to undo commits in backup_branch, you need to go back to the first commit.
- Use "git status":
  - if there are unstaged files, use git commands to remove/undo them.
- Push the branch backup_branch to your remote repository.

# Task 5

- From your computer, switch to master branch:
  - Add a new file and call it "**masterFile.txt**".
  - Add the following to masterFile: "**I am in the master.**" And save it.
  - Push the changes to your remote repository.
- Then, (from your computer) switch to backup_branch:
  - Add a new file and call it "**branchFile.txt**".
  - Add the following to branchFile: "**I am in the branch file.**" And save it.
  - Push the changes to your remote repository.

# Task 6

- From your computer, switch to backup_branch:
  - Rebase the backup_branch to master branch.
  - Push the changes to your remote repository.

# Task 7

- Switch to backup_branch:
  - Add a new file and call it "**masterFile.txt**".
  - Add the following to masterFile: "**I am in the branch**." And save it.
  - Push the changes to your remote repository.

# Task 8

- From your computer, switch to backup_branch:
    - Rebase the backup_branch to the master branch.
    - Resolve any conflicts.
    - Push the changes to your remote repository.

# Task 9

- Upload your work in a zip file for Lab1.
  - Your zip file should contains all files, including hidden files.
  - To be safe, zip the directory/folder in which you are did your work.

# Task 10

- Let me know that you have finished.