Introduction to Software Systems

Lab 1: Understanding Git and Github

Date: March 29, 2022

Official docs

GitHub Cheatsheet

Repository creation

- Config your local machine, add user.name, user.email, github.user, github.token (generate access token from github), with git config user.name "Jon Doe" ..etc. Use --global for personal PCs.
- Make a directory named ISS_Lab-1
- Init the directory with git init .

Creating and adding files

Make a file named name.txt with your name and roll number in it like the format below:

Kshitijaa Jaglan 2019115005

- git add your file
- Commit the file with a meaningful message
- git push the changes to the main repository
- Check online if your changes have been pushed. You should see the file name.txt with the details entered

Pull and updation

- Open the Github repo in your browser and add a second file called name2.txt with the same content
- Do git pull and check if the changes have been pulled to your local machine

Branching

- Use git branch to create a new branch called other_details
- Create a file called other_details.txt with content in the following format (Add your details instead) (in your main/master branch only):

Roll: 2019115005 Branch: CHD

- Follow the general process to add, commit and push the file Verify online if your changes have been pushed
- checkout to the branch other_details created earlier and create a file with the same name other_details.txt and add content in the following format
 (please not that this is in an order different from that in the main/master branch):

Branch: CHD Roll: 2019115005

• Follow the general process to add , commit and push the file Verify online if your changes have been pushed