

Basic Entry Level Git Bash & GitHub Lab Exercises (Education Domain)

Lab 1: Introduction to Git Bash and Repository Setup

- Open Git Bash on your computer.
- Configure your Git username using: `git config --global user.name "Your Name"`
- Configure your Git email using: `git config --global user.email "your@email.com"`
- Create a new folder named 'education_git_lab' and navigate to it.
- Initialize a local Git repository using: `git init`

Lab 2: Creating and Committing Files

- Inside the initialized folder, create a text file named 'readme.txt'.
- Open the file and write a short description about Git usage in education.
- Check file status using: `git status`
- Add the file to staging: `git add readme.txt`
- Commit the change: `git commit -m "Added readme with description"`

Lab 3: Creating a GitHub Repository

- Log in to GitHub and create a new public repository named 'education-git-lab'.
- Do not initialize with README (since already created locally).
- Copy the remote repository URL.

Lab 4: Push Local Repository to GitHub

- Return to Git Bash and connect remote repo using: `git remote add origin <repo_url>`
- Verify remote: `git remote -v`
- Push files to GitHub: `git push -u origin main` (or master depending on system).

Lab 5: Updating and Version Control

- Modify 'readme.txt' by adding a new sentence about version control importance.
- Use `git status` to view changes.
- Stage and commit the changes.
- Push updates to GitHub.
- Verify that the updated file appears on GitHub.