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**Experiment 1 : Version Control with Git**

**Objective: Understand and utilize git for version control**

**Task:**

**- initialize a git repository**

**- perform basic git operations: add, commit, push, pull**

**- create and switch branches**

**- resolve merge conflicts**

**- collaborate using pull requests on GitHub**

**Create Repositories**

git init

**To make changes**

git add . # adds all the files in that folder

git commit -m "" # commit changes to the repo's history with a short message

git status

git config --global user.name "[name]" -- set the global username

git config --list -- lists all configurations

**In case in need for help**

git help config

git config --help

**Create a test Repository**

mkdir test

**Move to the test Directory**

cd test

**To check for differences**

git diff

**linking to GitHub**

git remote add origin https://github.com/username/Lab-1.git

git push origin master

**Create first branch**

git branch first\_branch

git add filename

git commit -m "changes in first\_branch"

git merge first\_branch

git checkout first\_branch

git log













