CSC207 Tutorial 2

some info about me

- my name is York
- 4th year undergrad in CS
- experience: web dev (Next.js, Node.js, Angular, Django), ML applications (RAG, CV), DevOps
- research interest: multilingual NLP (cross-lingual transfer)
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lab overview

- Activity 1 (a): Learning Git branching
- Activity 1(b): Practicing Git branching, merging & pull requests
- Activity 2: Translating Python code to Java

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git basics key concepts

- Repository: a database of the project's files and history
- Branch: represents a timeline / linked list of commits
 - under the hood, they're just a reference to a specific commit
- Commits: a snapshot of your project
- Merging: to combine two branches
- Pull request: a request to merge (GitHub feature, not part of Git)

git basics branching commands

- git branch <name>: create a branch
- git checkout <name>: "go" to a branch (i.e. change your working directory to reflect the current state of the branch)
- git merge <name>: "merge" the changes from another branch to your current branch
- git rebase <name>: "rebase" all changes in your current branch to the beginning ("HEAD") of another branch

git basics why use branching?

- **Isolate changes:** each branch can represent some specific "change" (e.g. new feature, bug fix)
- Work in parallel: each team member works on their own branch simultaneously, while the "master" branch remains untouched
- Collaborative features: before incorporating changes, we can review, test and discuss them => pull requests

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