1. What commands would you use to stage all the changes and commit them with a meaningful commit message? git add. git commit -m "Describe the changes you've made" 2. You have committed changes to a wrong branch. How would you move these commits to the correct branch? git checkout correct-branch # Cherry-pick the commit(s) git cherry-pick <commit-hash> # (Optional) Remove the commit from the wrong branch git checkout wrong-branch git reset --hard HEAD~1 3. You want to create a new branch, make changes, and push the branch to the remote repository. git checkout -b new-feature git add. git commit -m "Add new feature" git push origin new-feature 4. You want to contribute to an open-source project hosted on GitHub. 1. Fork the repo on GitHub 2. Clone your fork: git clone https://github.com/your-username/repo-name.git cd repo-name 3. Add upstream: git remote add upstream https://github.com/original-owner/repo-name.git

4. Create a new branch:
git checkout -b feature-branch
5. Make changes, commit:
git add .
git commit -m "Fix: Describe the fix"
git push origin feature-branch
6. Create a Pull Request on GitHub
5. You are working on a team project, and there are conflicts between your branch and the
main branch.
git fetch origin
git checkout your-branch
git merge origin/main
Resolve conflicts manually, then:
git add resolved-file
git commit
6. You want to create a feature branch based on the latest changes in the main branch.
git checkout main
git pull origin main
git checkout -b feature-branch
7. You have made a series of commits, but you realize that a change made several commits
ago is causing issues.
git resethard <commit-hash></commit-hash>
If pushed already:
git push origin HEADforce
8. You have accidentally deleted a file in your Git repository and committed the change.

git checkout HEAD~1 -- path/to/deleted-file
git add path/to/deleted-file
git commit -m "Restore deleted file"