- 1. Set your username and email in git config
 - >> git config -global user.name "sumana"
 - >> git config –global user.email "sumana.gurajapali@gmail.com"
- 2. Create a new branch named "feature-branch" and switch to it.
 - >> git checkout -b feature-branch
- 3. List all branches in the repository.
 - >> git branch -a
- 4. Delete the branch "feature-branch"
 - >> git checkout main
 - >> git branch -d feature-branch
- 5. How do you undo the last commit
 - >> git revert HEAD --no-edit
- 6. Create a new branch names "conflict-branch"
 - >> git checkout -b conflict-branch
- 7. Create a another branch named "feature1"
 - >> git checnkout -b feature1
- 8. Make some changes in to feature1 branch
 - >> echo "Some changes" >> file.txt
 - >> git add file.txt
 - >> git commit -m "Made some changes in feature1"
 - 9.Merge "feature1" branch into main branch
 - >> git checkout main
 - >> git merge feature1
 - 10.Make changes in "conflict-branch", in the same file and line that you had made changes in feature1
 - >> git checkout conflict-branch
 - >> echo "Conflicting changes" > file.txt
 - >> git add file.txt
 - >> git commit -m "Made conflicting changes in conflict-branch"
 - 11. Merge master into conflict-branch [Attach screenshot of terminal & file]
 - >> git merge main
 - 12. Resolve merge conflicts
 - >> git add file.txt
 - >> git commit -m "Resolved merge conflicts"
 - 13.Add a remote named "origin" pointing to a GitHub repository.
 - >> git remote add origin https://github.com/sumana/todo app.git
 - 14. Fork a repository on GitHub and clone it to your local machine.
 - >> git clone https://github.com/sumana/forked-repository.git
 - 15. Create a new branch on your fork, make changes, and open a pull request to the original repository.
 - >> git checkout -b new-feature
 - >> git add.

- >> git commit -m "Added new feature"
- >> git push origin new-feature
- 16.Comment on a PR and suggest improvements

In `feature.txt`, the variable name `x` is not descriptive.consider using a more meaninful name, such as `userInput`:

- let x = getInput();
- + let userInput = getInput();
- 17. Create a Git alias for the command `git log --oneline` named `gitlol`.
 - >>git config -global alias.gitolol "log -oneline"
- 18.Create a pre-commit hook
 - >>echo '#!/bin/sh' > .git/hooks/pre-commit
 - >>echo 'echo "Running pre-commit hook..."" >> .git/hooks/pre-commit
 - >>chomd +x .git/hooks/pre-commit
- 19. You have made local changes in your branch, but you need to switch to another branch urgently without committing. How would you handle this situation?
 - >>git stash
 - >>git checkout another-branch
 - >>git stash pop
- 20. You accidentally deleted a file in your local repository. How do you restore it using Git?
 - >>Git checkout -- path/to/deleted-file
- 21, You have committed changes to your branch but forgot to include a file. How do you add the file to the last commit without creating a new commit?
 - >>git add forgot-file.txt
 - >>git commit -amend --no-edit
- 22, You want to discard all changes in your working directory and revert to the last commit. What Git command would you use?
 - >>git reset --hard
- 23. You need to view a specific commit's changes. What Git command can be used to show the changes introduced by a particular commit?
 - >>git show <commit-hash>
- 24. You want to change a commit message, after you have already committed, how do you do so?
 - >>git commit -amend -m "New commit message"

```
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S git config --global user.name "sumana"
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S git config --global user.email "sumana.gurajapal@gracto.com"
git: 'congif' is not a git command. See 'git --help'.

The most similar command is config gurajapal@gracipall=HP-ProBook-440-GB-Notebook-PC:-S git config --global --list
user.name=sumana
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S mkdir -/my-project
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S mkdir -/my-project
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S mkdir -/my-project
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S cd -/my-project
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S cd -/my-project
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gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-S cd -/my-project
gurajapal@gurajapali-HP-ProBook-440-GB-Notebook-PC:-/my-project() git init
hint: is subject to change. To configure the initial branch name to use in all
hint: of config --global init.defaultBranch -names
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
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hint: 'git command: 'git sommand' sale instead of 'master' are 'main', 'trunk' and
hint: 'git command: 'git command' sale ins
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### Surajapaliggurajapali-HP-ProBook-440-GB-Notebook-PC:-/my-project

### Or: git checkout [coptions>] [
### create and checkout a new branch
### oreate/reset and checkout a new branch
### oreate/reset substance/reset and reset and res
```

```
gursjapal@gursjapali-HP-ProBook-440-GB-Notebook-PC: //my-project S echo "conflicting changes in conflict-branch" > file.txt
gursjapali@gursjapali-HP-ProBook-440-GB-Notebook-PC: //my-project S git add file.txt
gursjapali@gursjapali-HP-ProBook-440-GB-Notebook-PC: //my-project S git commit -m "Made conflicting changes in conflict-branch"
[Feelit 9780925] Made conflicting changes in conflict-branch "Conflicting changes in conflict-branch"
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[Feelit 9780925] Made conflicting changes in conflict-branch "Conflicting changes in conflict-branch"
[Feelit 9780925] Made Conflicting changes in conflicting ch
```

25. You accidentally deleted a file in your local repository. How do you restore it using Git?

```
>>Git add wow.text
```

>>git commit -amed -no-edit

26. You have committed changes to your branch but forgot to include a file. How do you add the file to the last commit without creating a new commit?

>>Git add wow.text

>>git commit -amed -no-edit

27. You want to discard all changes in your working directory and revert to the last commit. What Git command would you use?

>>Git reset -hard HEAD

28. You need to view a specific commit's changes. What Git command can be used to show the changes introduced by a particular commit?

>>git show commit-hash

29. You want to change a commit message, after you have already committed, how do you do so?

>>Git commit -amend

30. Your colleague has made changes in their branch, and you want to incorporate those changes into your branch without merging. How do you achieve this?

>>Git cherry-pick commit-hash

31. You've made several commits on a branch, but you want to club them into a single commit before pushing to the remote repository. How would you do that?

>>Git rebase -i HEAD~N

32. You accidentally staged a file that you don't want to commit. How do you unstage it?

- >>Git reset HEAD file
- 33. You don't want to commit files that have .yml in the end, and also files inside folder config. How do you do that?
 - >>Git add .gitignore(in gitignore file add *.yml)
- 34. You want to see a list of all the files changed in the last commit. What Git command would you use?
 - >>Git diff -name-only HEAD
- 35. You realize that your local branch is outdated, and you want to fetch the latest changes from the remote repository. How do you do this without merging?
 - >>Git fetch
- 36. You accidentally deleted a branch. How do you recover it?
 - >>Git checkout -b deleted-branch-name commit-hash
- 37. You want to remove untracked files and directories from your working directory. What Git command would you use?
 - >>Git clean -n
- 38. You have a commit from a feature branch that you want to apply to the main branch without merging the entire feature branch.
 - >>Git checkout main
 - >>Git cherry-pick<commit-hash>
- 39. You mistakenly committed a change to the wrong branch and need to apply that commit to the correct branch.
 - >>Git checkout correct-branch
 - >>Git che rry-pick <commit-hash>
 - >>Git checkout wrong-branch
 - >>Git revert<commit-hash>
- 40. There is a series of commits on a feature branch, but you only want to cherry-pick a specific range of commits.
 - >>Git checkout main
- 41. You want to clone a GitHub repository onto your local machine, but you only need a specific branch. How can you achieve this?
 - >>Git clone -b
branch name> <repo-url>
- 42. You've made changes to your local repository and want to push them to your fork on GitHub. What Git commands would you use?
 - >>Git add.
 - >>Git commit -m "message"
 - >>Git push origin branch name
- 43. You want to create a new branch both locally and on GitHub to work on a new feature. What commands would you use?
 - >>Git checkout -b new
 - >>Git add.

- >>Git commit -m "msg"
- >>Git push
- 44. You want to see the commit history of a GitHub repository. How can you do this using Git commands?
 - >>Git log
- 45. You've accidentally committed sensitive information and want to remove the commit from both your local and remote repositories on GitHub. What commands would you use?
 - >>Git reset id
 - >>Git revert <commit-hash>
- 46. You want to delete a remote branch on GitHub. What Git command would you use?
 - >>Git push origin -delete<branch-name>
- 47.Create a git repository for all your assignments and upload them in it. Ask your peers to code review it, and you need to code review your peers assignments
- 48.Create a pull request on any open source library on github, attach the pull request link to the readme file of this project's repository