**Git Bash & GitHub MCQs**

**Git Basics**

1. What is Git?
   * a) A version control system
   * b) A programming language
   * c) A text editor
   * d) A database
   * **Answer:** a) A version control system
2. Which command initializes a new Git repository?
   * a) git start
   * b) git init
   * c) git create
   * d) git new
   * **Answer:** b) git init
3. How do you check the status of your repository in Git?
   * a) git check
   * b) git log
   * c) git status
   * d) git info
   * **Answer:** c) git status
4. What is the purpose of git add .?
   * a) Deletes files from the repository
   * b) Stages all changes for commit
   * c) Commits all changes
   * d) Reverts changes
   * **Answer:** b) Stages all changes for commit
5. How do you commit changes in Git?
   * a) git commit -m "message"
   * b) git save -m "message"
   * c) git update -m "message"
   * d) git push -m "message"
   * **Answer:** a) git commit -m "message"

**Branching & Merging**

1. How do you create a new branch in Git?
   * a) git create-branch <branch\_name>
   * b) git branch <branch\_name>
   * c) git checkout -b <branch\_name>
   * d) git new-branch <branch\_name>
   * **Answer:** b) git branch <branch\_name>
2. How do you switch to another branch?
   * a) git switch <branch\_name>
   * b) git branch <branch\_name>
   * c) git checkout <branch\_name>
   * d) git change <branch\_name>
   * **Answer:** c) git checkout <branch\_name> or a) git switch <branch\_name>
3. How do you merge a branch into the current branch?
   * a) git merge <branch\_name>
   * b) git integrate <branch\_name>
   * c) git join <branch\_name>
   * d) git add <branch\_name>
   * **Answer:** a) git merge <branch\_name>
4. How do you delete a branch in Git?
   * a) git branch -d <branch\_name>
   * b) git remove <branch\_name>
   * c) git delete <branch\_name>
   * d) git drop <branch\_name>
   * **Answer:** a) git branch -d <branch\_name>
5. What does git rebase do?

* a) Combines multiple branches into one
* b) Resets the repository to an earlier state
* c) Applies changes from one branch to another in a linear manner
* d) Deletes all commits in a branch
* **Answer:** c) Applies changes from one branch to another in a linear manner

**Remote Repositories & GitHub**

1. How do you clone a Git repository?

* a) git copy <repo\_url>
* b) git clone <repo\_url>
* c) git pull <repo\_url>
* d) git download <repo\_url>
* **Answer:** b) git clone <repo\_url>

1. How do you push local commits to a remote repository?

* a) git update
* b) git push
* c) git upload
* d) git commit
* **Answer:** b) git push

1. What is the purpose of git pull?

* a) Fetches and merges remote changes
* b) Only fetches remote changes
* c) Deletes local changes
* d) Pushes local commits to the remote repository
* **Answer:** a) Fetches and merges remote changes

1. How do you set a remote repository?

* a) git set remote <url>
* b) git remote add origin <url>
* c) git add remote <url>
* d) git connect <url>
* **Answer:** b) git remote add origin <url>

1. How do you list all remote repositories?

* a) git remote list
* b) git list remotes
* c) git remote -v
* d) git show remotes
* **Answer:** c) git remote -v

**Git Configurations & Logs**

1. How do you configure your Git username?

* a) git config --global user.name "Your Name"
* b) git user set "Your Name"
* c) git set user.name "Your Name"
* d) git username "Your Name"
* **Answer:** a) git config --global user.name "Your Name"

1. How do you check commit history?

* a) git show
* b) git history
* c) git log
* d) git commits
* **Answer:** c) git log

1. How do you reset a file to its last committed state?

* a) git reset --hard
* b) git checkout -- <file>
* c) git revert <file>
* d) git delete <file>
* **Answer:** b) git checkout -- <file>

1. What is .gitignore used for?

* a) To list files that Git should ignore
* b) To delete files permanently
* c) To track large files
* d) To remove commits
* **Answer:** a) To list files that Git should ignore

1. How do you stash changes in Git?

* a) git save
* b) git store
* c) git stash
* d) git hide
* **Answer:** c) git stash

**Advanced Git Commands & Features**

1. How do you apply stashed changes in Git?

* a) git apply stash
* b) git stash pop
* c) git unstash
* d) git restore stash
* **Answer:** b) git stash pop

1. How do you remove all stashed changes?

* a) git stash drop
* b) git stash clear
* c) git remove stash
* d) git stash delete
* **Answer:** b) git stash clear

1. What command is used to revert a commit?

* a) git revert <commit\_hash>
* b) git reset <commit\_hash>
* c) git undo <commit\_hash>
* d) git rollback <commit\_hash>
* **Answer:** a) git revert <commit\_hash>

1. How do you reset a repository to the last commit?

* a) git reset --hard HEAD
* b) git checkout --latest
* c) git clean repo
* d) git restore latest
* **Answer:** a) git reset --hard HEAD

1. How do you compare the differences between two commits?

* a) git compare <commit1> <commit2>
* b) git diff <commit1> <commit2>
* c) git log --diff
* d) git showdiff <commit1> <commit2>
* **Answer:** b) git diff <commit1> <commit2>

**GitHub Collaboration**

1. How do you fork a repository on GitHub?

* a) Click the "Fork" button on GitHub
* b) Run git fork <repo\_url>
* c) Use git clone --fork
* d) Forking is not possible in GitHub
* **Answer:** a) Click the "Fork" button on GitHub

1. What is a pull request (PR) in GitHub?

* a) A request to fetch changes from another repository
* b) A request to merge changes into another branch
* c) A request to delete a repository
* d) A request to undo a commit
* **Answer:** b) A request to merge changes into another branch

1. How do you create a pull request on GitHub?

* a) Use git pull-request command
* b) Click "New Pull Request" on GitHub
* c) Use git merge-request command
* d) Use git push --pr
* **Answer:** b) Click "New Pull Request" on GitHub

1. What does forking a repository allow you to do?

* a) Modify another user’s repository directly
* b) Create a personal copy of another repository
* c) Remove a repository from GitHub
* d) Share repository credentials
* **Answer:** b) Create a personal copy of another repository

1. How do you sync your forked repository with the original repository?

* a) git sync origin
* b) git merge upstream/main
* c) git pull upstream main
* d) git update fork
* **Answer:** c) git pull upstream main

**Git Bash & Command-Line Usage**

1. How do you list all Git branches?

* a) git list branches
* b) git branch -a
* c) git show branches
* d) git branch --all
* **Answer:** b) git branch -a

1. How do you rename a Git branch?

* a) git branch -r <new\_name>
* b) git rename-branch <new\_name>
* c) git branch -m <new\_name>
* d) git move branch <new\_name>
* **Answer:** c) git branch -m <new\_name>

1. How do you delete a remote branch?

* a) git branch -dr <branch\_name>
* b) git push origin --delete <branch\_name>
* c) git delete remote <branch\_name>
* d) git drop branch <branch\_name>
* **Answer:** b) git push origin --delete <branch\_name>

1. What does git cherry-pick do?

* a) Deletes a commit
* b) Merges selected commits from one branch to another
* c) Rewrites commit history
* d) Removes a commit from history
* **Answer:** b) Merges selected commits from one branch to another

1. How do you undo the last commit but keep the changes?

* a) git reset --hard HEAD~1
* b) git reset --soft HEAD~1
* c) git revert HEAD~1
* d) git undo commit
* **Answer:** b) git reset --soft HEAD~1

**GitHub Security & Best Practices**

1. What file is used to ignore files in Git?

* a) .gitignore
* b) .gitconfig
* c) .gitsettings
* d) git.exclude
* **Answer:** a) .gitignore

1. What does git tag do?

* a) Marks a commit with a label
* b) Creates a new branch
* c) Deletes a branch
* d) Assigns issues to developers
* **Answer:** a) Marks a commit with a label

1. How do you create an annotated tag in Git?

* a) git tag -a v1.0 -m "Version 1.0"
* b) git tag --new v1.0
* c) git mark v1.0
* d) git tag -m v1.0
* **Answer:** a) git tag -a v1.0 -m "Version 1.0"

1. How do you push tags to a remote repository?

* a) git push --tags
* b) git push origin tags
* c) git upload tags
* d) git push -t
* **Answer:** a) git push --tags

1. How do you check the last commit?

* a) git log -1
* b) git history -1
* c) git show last
* d) git lastcommit
* **Answer:** a) git log -1

**Miscellaneous & Troubleshooting**

1. How do you remove a file from Git tracking but keep it in the local directory?

* a) git remove --cached <file>
* b) git delete --keep <file>
* c) git ignore <file>
* d) git untrack <file>
* **Answer:** a) git remove --cached <file>

1. What command lists all tracked files?

* a) git list
* b) git ls-files
* c) git status --files
* d) git track
* **Answer:** b) git ls-files

1. How do you recover a deleted branch?

* a) git checkout -b <branch> <commit>
* b) git restore branch
* c) git redo branch
* d) git branch-recover
* **Answer:** a) git checkout -b <branch> <commit>