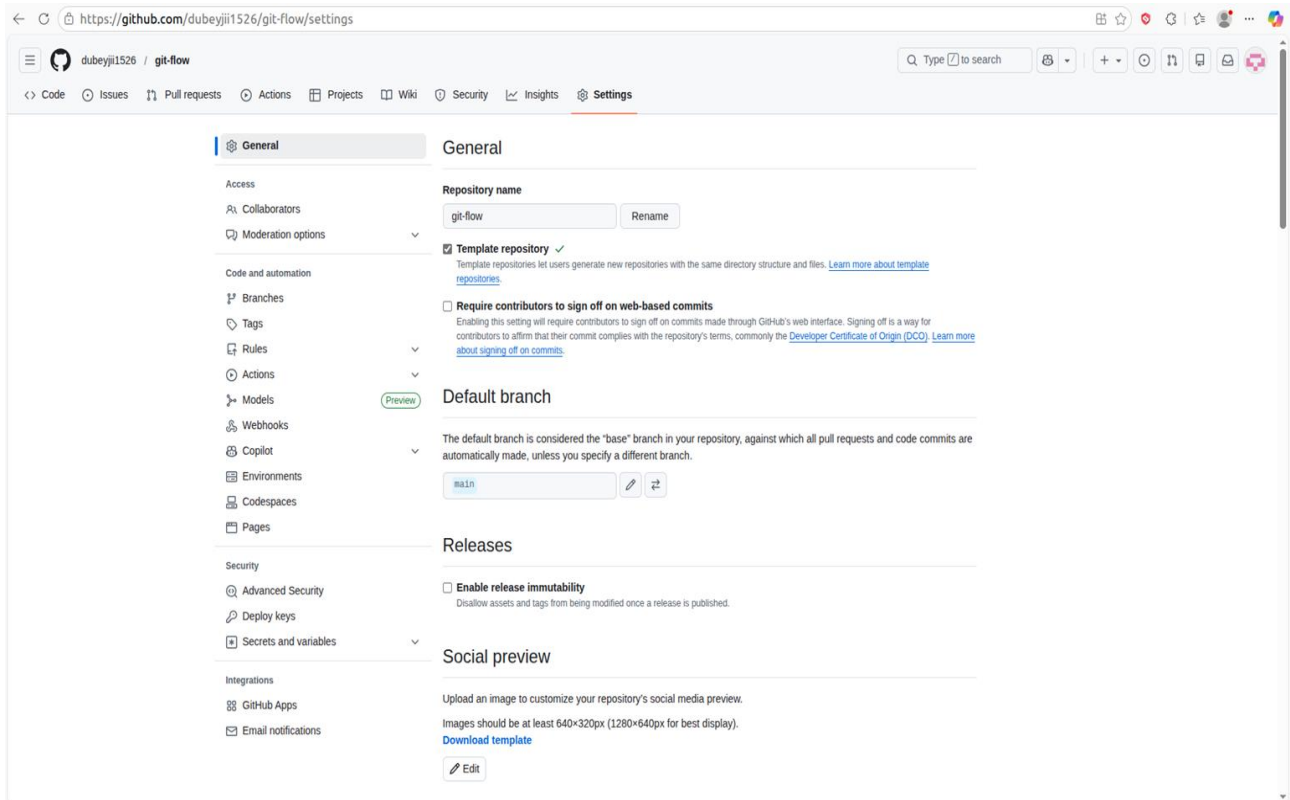


Git Practical Exam

Git Exercise:

1. Create a new repository with a template.



2.Initialize git-flow.

Command:- git init

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git add .
hint: the embedded repository and will not know how to obtain it.
hint: If you meant to add a submodule, use:
hint:
hint:   git submodule add <url> git-flow
hint:
hint: If you added this path by mistake, you can remove it from the
hint: index with:
hint:   git rm --cached git-flow
hint:
hint: See "git help submodule" for more information.
• ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git status
On branch sub-branch
Your branch is up to date with 'origin/sub-branch'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   exercise
        new file:   git-flow

• ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git diff
• ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git diff --cached
diff --git a/exercise b/exercise
new file mode 100644
index 0000000..5934205
--- /dev/null
+++ b/exercise
@@ -0,0 +1 @@
+practice
diff --git a/git-flow b/git-flow
new file mode 160000
index 0000000..4e7aadd
--- /dev/null
+++ b/git-flow
@@ -0,0 +1 @@
+Subproject commit 4e7aaddf85c572ab3d589a7e5bf597bca88b5fe6
• ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git commit -m "git-flow"
[sub-branch d154f71] git-flow
2 files changed, 2 insertions(+)
create mode 100644 exercise
create mode 160000 git-flow
• ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 343 bytes | 343.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:dubeyjil1526/git-flow.git
c50ce16..d154f71 sub-branch -> sub-branch
• ankush.dubey@inform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$
```

3.Create a feature branch for project setup with the proper Zoho task ID (example: TP2-T1299_Project_Setup).

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git checkout -b TE-T109Basics-of-git
Switched to a new branch 'TE-T109Basics-of-git'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ touch README.md
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git add .
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git commit -m "Initial setup"
[TE-T109Basics-of-git (root-commit) eb35f57] Initial setup
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git branch
* TE-T109Basics-of-git
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git remote -v origin git@github.com:dubeyjii1526/git-flow.git
error: Unknown subcommand: origin
usage: git remote [-v | --verbose]
or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--mirror=<fetch|push>] <name> <url>
or: git remote rename <old> <new>
or: git remote remove <name>
or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
or: git remote [-v | --verbose] show [-n] <name>
or: git remote prune [-n | --dry-run] <name>
or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)...]
or: git remote set-branches [--add] <name> <branch>...
or: git remote get-url [--push] [--all] <name>
or: git remote set-url [--push] <name> <newurl> [<oldurl>]
or: git remote set-url --add <name> <newurl>
or: git remote set-url --delete <name> <url>

-v, --verbose          be verbose; must be placed before a subcommand
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git remote add origin git@github.com:dubeyjii1526/git-flow.git
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push origin TE-T109Basics-of-git
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 217 bytes | 217.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'TE-T109Basics-of-git' on GitHub by visiting:
remote:   https://github.com/dubeyjii1526/git-flow/pull/new/TE-T109Basics-of-git
remote:
To github.com:dubeyjii1526/git-flow.git
 * [new branch]      TE-T109Basics-of-git -> TE-T109Basics-of-git
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git checkout sub-branch
error: pathspec 'sub-branch' did not match any file(s) known to git
```

4. Create a sub-branch from the project setup branch and perform squash, reset, rebase and cherrypick.

Squash: - process of taking multiple commits and condensing them into a single, unified commit.

Command: -git rebase -i HEAD~3
-complete squash in nano
-CTRL O+ ENTER +CTRL X

CHECK LOG AND STATUS

git log

git status

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git log
Initial setup
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git log --oneline
749927c (HEAD -> sub-branch) third commit
31aa2b9 second commit
b953df9 first commit
eb35f57 (origin/TE-T109Basics-of-git, TE-T109Basics-of-git) Initial setup
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git rebase-i HEAD~3
git: 'rebase-i' is not a git command. See 'git --help'.
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git rebase -i HEAD~3
[detached HEAD dd62767] first commit
Date: Fri Jan 30 16:21:54 2026 +0530
1 file changed, 3 insertions(+)
create mode 100644 a
Successfully rebased and updated refs/heads/sub-branch.
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git log --oneline
dd62767 (HEAD -> sub-branch) first commit
eb35f57 (origin/TE-T109Basics-of-git, TE-T109Basics-of-git) Initial setup
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git show dd62767
commit dd6276742398416038a14cbb1cfd1e676909706 (HEAD -> sub-branch)
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Fri Jan 30 16:21:54 2026 +0530

first commit

second commit

third commit

squashed

diff --git a/a b/a
new file mode 100644
index 0000000..0aabfc9
--- /dev/null
+++ b/a
@@ -0,0 +1,3 @@
+first commit
+second commit
+third commit
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git commit --amend -m "Squasd"
[sub-branch c50ce16] Squasd
Date: Fri Jan 30 16:21:54 2026 +0530
1 file changed, 3 insertions(+)
create mode 100644 a
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push --force
fatal: The current branch sub-branch has no upstream branch.
To push the current branch and set the remote as upstream, use

git push --set-upstream origin sub-branch
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push -u origin master
```

reset:- Used to move the current branch pointer (HEAD) to a specific previous commit.

Command:- git reset HEAD reset

```
C50ce10..d154f71 sub-branch -> sub-branch
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ touch reset
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git add .
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git reset HEAD reset
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git status
On branch sub-branch
Your branch is up to date with 'origin/sub-branch'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    reset

nothing added to commit but untracked files present (use "git add" to track)
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git log
commit d154f715ffb1800051fdca014fff40328837169b (HEAD -> sub-branch, origin/sub-branch)
Author: ankush dubey <ankush.dubey@simform.dom>
Date:   Fri Jan 30 16:51:02 2026 +0530

    git-flow

commit c50ce163a67e875f87e043d968150e40f8e25a39
Author: ankush dubey <ankush.dubey@simform.dom>
Date:   Fri Jan 30 16:21:54 2026 +0530

    Squasd

commit eb35f5779131c071dc5c33e512f0ae382b617f7d (origin/TE-T109Basics-of-git, TE-T109Basics-of-git)
Author: ankush dubey <ankush.dubey@simform.dom>
Date:   Fri Jan 30 16:12:12 2026 +0530

Initial setup
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$
```

Rebase:- process of moving or combining a sequence of commits to a new base commit.

Command :- git checkout sub-branch
git rebase branch-name

```
Initial setup
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git branch
  TE-T109Basics-of-git
* sub-branch
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git rebase sub-branch
Current branch sub-branch is up to date.
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git rebase TE-T109Basics-of-git
Current branch sub-branch is up to date.
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git branch
  TE-T109Basics-of-git
* sub-branch
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git switch TE-T109Basics-of-git
warning: unable to rmdir 'git-flow': Directory not empty
Switched to branch 'TE-T109Basics-of-git'
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git rebase sub-branch
Successfully rebased and updated refs/heads/TE-T109Basics-of-git.
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push origin TE-T109Basics-of-git
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
```

cherrypick:- It is the act of choosing a specific commit from one branch and applying it to another.

Command:- git cherry-pick Hash-code

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git cherry-pick 4e7aaddf85c572ab3d589a7e5bf597bca88b5fe6
fatal: bad object 4e7aaddf85c572ab3d589a7e5bf597bca88b5fe6
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git fetch --all
Fetching origin
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (4/4), 84.22 KiB | 205.00 KiB/s, done.
From github.com:dubeyjii1526/git-flow
* [new branch]      main      -> origin/main
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git cherry-pick 4e7aaddf85c572ab3d589a7e5bf597bca88b5fe6
Auto-merging README.md
[TE-T109Basics-of-git 2882c2b] Initial commit
Author: dubeyjii1526 <ankushkumar.119196@marwadiuniversity.ac.in>
Date: Fri Jan 30 15:57:06 2026 +0530
2 files changed, 2 insertions(+)
create mode 100644 IMG-20250401-WA0005.jpg
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push
fatal: The current branch TE-T109Basics-of-git has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin TE-T109Basics-of-git

ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push -u origin TE-T109Basics-of-git
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 83.74 KiB | 7.61 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:dubeyjii1526/git-flow.git
d154f71..2882c2b TE-T109Basics-of-git -> TE-T109Basics-of-git
Branch 'TE-T109Basics-of-git' set up to track remote branch 'TE-T109Basics-of-git' from 'origin'.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$
```

Practice below mentioned scenario and decide which one to use from rebase, cherry-pick, reset or squash and how

1.Create a branch from the develop.

Command :- git checkout develop
git checkout -b BranchName

```
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:   https://github.com/dubeyjii1526/git-flow/pull/new/develop
remote:
To github.com:dubeyjii1526/git-flow.git
* [new branch]      develop -> develop
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git pull
^C
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git branch
* develop
  sub-branch
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git branch -D TE-T109Basics-of-git
error: branch 'TE-T109Basics-of-git' not found.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git push origin --delete TE-T109Basics-of-git
To github.com:dubeyjii1526/git-flow.git
- [deleted]          TE-T109Basics-of-git
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git checkout -b TE-T109Basics-of-git
Switched to a new branch 'TE-T109Basics-of-git'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$
```

2.Add a commit message hook to the repo.

Command:- mv file.sample file
chmod +x file
execute a commit

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/.git/hooks$ chmod +x pre-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/.git/hooks$ chmod +x .git/hooks/pre-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/.git/hooks$ ls
applypatch-msg.sample  post-update.sample  pre-merge-commit.sample  pre-rebase.sample  update.sample
commit-msg.sample      pre-applypatch.sample  prepare-commit-msg.sample  pre-receive.sample
fsmonitor-watchman.sample  pre-commit          pre-push.sample          push-to-checkout.sample
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/.git/hooks$ ls -a pre-commit
pre-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/.git/hooks$ ls -la pre-commit
-rwxr-xr-x 1 ankush.dubey@simform.dom domain users@simform.dom 17 Jan 30 18:19 pre-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/.git/hooks$
```

```

[TE-T109Basics-of-git 869c90e] Check
Date: Fri Jan 30 18:31:33 2026 +0530
1 file changed, 2 insertions(+), 1 deletion(-)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ gedit add
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git add .
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ git commit --amend -m "hook"
Hook
[TE-T109Basics-of-git de663ad] hook
Date: Fri Jan 30 18:31:33 2026 +0530
1 file changed, 3 insertions(+), 1 deletion(-)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$

```

3.Perform multiple commits in the new branch.

Command:- git commit -m “msg”

```

new-branch
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git add simform.txt
fatal: pathspec 'simform.txt' did not match any files
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ touch simform.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git add simform.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git commit -m "first commit"
-----
X ERROR: Invalid commit message format.
Your message: 'first commit'
Expected format: 'feat: description' or 'fix: description'
-----
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git add .
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git commit -m "feat: first commit"
[develop 8772ca4] feat: first commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 simform.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ touch simform1.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git add simform1.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git commit -m "feat: Second commit"
[develop d898172] feat: Second commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 simform1.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ touch simform2.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git add simform2.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$ git commit -m "feat: Third commit"
[develop 4400180] feat: Third commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 simform2.txt
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/Basics Of Git$

```

```

commit d8981723b571a336057af1970aad664a5c9baf90 (HEAD -> develop)
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Thu Jan 29 19:17:47 2026 +0530

    feat: Second commit

commit 8772ca4c48473063bc98cc65a099d1064638a04d
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Thu Jan 29 19:16:58 2026 +0530

    feat: first commit

commit d781d8356fd84d7e691a21d07ce60b467249b6dd
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Thu Jan 29 19:05:14 2026 +0530

    feat: add user login validation

commit 7c10325142ee84bf928bd5473727d979c54fd1b7 (origin/master, new-branch, new, master)
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Thu Jan 29 17:21:21 2026 +0530

    up

commit 228a1c247b70f2b42fa44c0dce13fc9331338b16
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Thu Jan 29 17:16:12 2026 +0530

    Add Php File

:

```


4.Create PR to develop.

dubeyjii1526 / git-flow

Q Type 🔍 to search

<> Code

Issues

Pull requests 1

Actions

Projects

Wiki

Security

Insights

Settings

Feature branch #2

Edit <> Code

🔗 Open

dubeyjii1526 wants to merge 4 commits into [develop](#) from [feature-branch](#)

🗨 Conversation 0

📄 Commits 4

🔍 Checks 0

📄 Files changed 2

dubeyjii1526 commented now

Owner

...

Creating a PR in Develop

ankush dubey added 4 commits 1 hour ago

changed message

a87e2b2

first commit

e628bab

second commit

3316a16

work in progress

519bf0f

🔗

No conflicts with base branch

Merging can be performed automatically.

Merge pull request

You can also merge this with the command line. [View command line instructions.](#)

Still in progress? [Convert to draft](#)

Notifications

Customize

Reviews

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

5. PR should be small in size, It's recommended to do one commit per PR. However, based on the situation we can have multiple commits in PR. e.g. if someone is doing 10 bug fixes which are one-liner fixes in such cases instead of 10 different PRs you can do 10 commits in a single PR.

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow$ git branch
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow$ cd my-project/
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project$ cd git-flow/
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git branch
* main
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout -b "new-branch"
Switched to a new branch 'new-branch'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ touch multiple-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git add .
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit -m "first commit"
git: 'commit' is not a git command. See 'git --help'.

The most similar command is
commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit -m "first commit"
[new-branch fed66bd] first commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 multiple-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ gedit multiple-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git add .
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit -m "second commit"
[new-branch acc5613] second commit
1 file changed, 1 insertion(+)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ gedit multiple-commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git add .
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit -m "third commit"
[new-branch 14d98e7] third commit
1 file changed, 1 insertion(+)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git rebase -i HEAD~3
[detached HEAD 2f7c529] first commit
Date: Mon Feb 2 10:47:17 2026 +0530
```

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git rebase -i HEAD~3
[detached HEAD 2f7c529] first commit
Date: Mon Feb 2 10:47:17 2026 +0530
1 file changed, 2 insertions(+)
create mode 100644 multiple-commit
Successfully rebased and updated refs/heads/new-branch.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git status
On branch new-branch
nothing to commit, working tree clean
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git log
commit 2f7c52916fb11b5fdd26089615b902de2e8dde6a (HEAD -> new-branch)
Author: ankush dubey <ankush.dubey@simform.dom>
Date: Mon Feb 2 10:47:17 2026 +0530

    first commit

    second commit

    third commit

Soltion of question5

commit 4e7aaddf85c572ab3d589a7e5bf597bca88b5fe6 (origin/main, origin/HEAD, main)
Author: dubeyjiil526 <ankushkumar.119196@marwadiuniversity.ac.in>
Date: Fri Jan 30 15:57:06 2026 +0530

    Initial commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git log --online
2f7c529 (HEAD -> new-branch) first commit
4e7aadd (origin/main, origin/HEAD, main) Initial commit
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$
```

dubeyji1526 / git-flow

<> Code

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+ + +

🔍

🔍

Feature task2/add commit hook #1

Edit

<> Code

🔗 Open

dubeyji1526 wants to merge 2 commits into `main` from `feature-task2`

🗨 Conversation 0

📄 Commits 2

🔍 Checks 0

📄 Files changed 1

+4 -0

dubeyji1526 commented now

Owner

...

No description provided.

🗨

ankush dubey added 2 commits 1 hour ago

📄

`first commit`

2f7c529

📄

`question7 solution`

d344557

Add a comment

Write

Preview

H B I

Add your comment here...

Reviews

No reviews

Still in progress? Convert to draft

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

Customize

🔕 Unsubscribe

You're receiving notifications because you authored the thread.

6. Create another branch from develop given your previous PR is still in review state.

```
* new-branch 2f/c529 first commit
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git switch develop
Switched to branch 'develop'
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout -b "feature-task2"
Switched to a new branch 'feature-task2'
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$
```

7. Now commit something in your current branch and push it.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git switch develop
Switched to branch 'develop'
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout -b "feature-task2"
Switched to a new branch 'feature-task2'
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ ls
IMG-20250401-WA0005.jpg  multiple-commit  README.md
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ gedit multiple-commit
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git add .
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit -m "question7 solution"
[feature-task2 d344557] question7 solution
1 file changed, 2 insertions(+)
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin develop
To github.com:dubeyjii1526/git-flow.git
 ! [rejected]        develop -> develop (fetch first)
error: failed to push some refs to 'github.com:dubeyjii1526/git-flow.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git branch
  develop
* feature-task2
  main
  new-branch
• ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin feature-task2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
```

https://github.com/dubeyjii1526/git-flow/tree/feature-task2

dubeyjii1526 / git-flow

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

git-flow Public template generated from dubeyjii1526/Ankusl

new-branch had recent pushes 22 minutes ago Compare & pull request

feature-task2 had recent pushes 23 seconds ago Compare & pull request

feature-task2 5 Branches 0 Tags Go to file Add file <> Code

This branch is 2 commits ahead of main. Contribute

ankush dubey question7 solution d344557 · 2 minutes ago 3 Commits

IMG-20250401-WA0005.jpg	Initial commit	3 days ago
README.md	Initial commit	3 days ago
multiple-commit	question7 solution	2 minutes ago

README

Ankusl

Ghh

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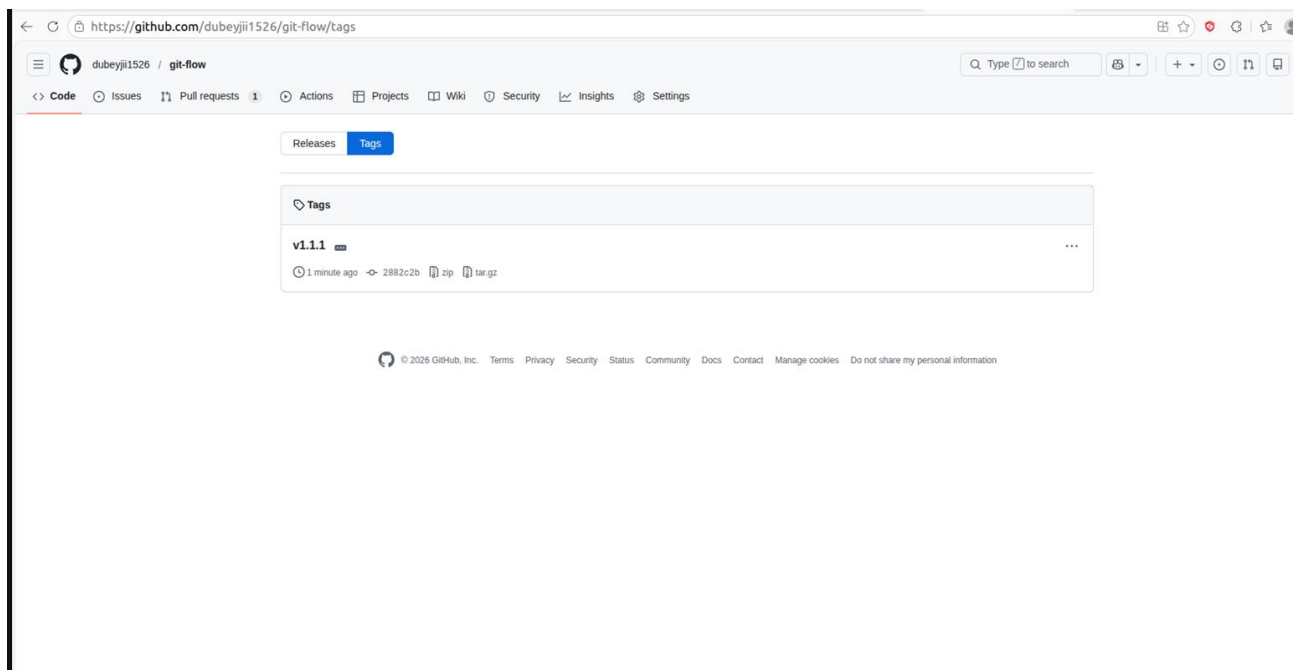
8. In the meantime, your previous PR has been merged to develop.

The screenshot shows a GitHub pull request titled "Feature task2/add commit hook #1" in the repository "dubeyjii1526/git-flow". The pull request is in the "Merged" state, with a message indicating it was merged 2 commits into the "main" branch from the "feature-task2" branch. The interface includes a "Conversation" tab with a comment from "dubeyjii1526" and a commit history showing "first commit" and "question7 solution". A "Pull request successfully merged and closed" message is displayed, along with a "Delete branch" button. The right sidebar shows metadata such as "Reviewers", "Assignees", "Labels", "Projects", "Milestone", "Development", and "Notifications".

The screenshot shows the same GitHub pull request, but now it is in the "Open" state. A "Commit message" dialog is open, showing the merge message "Merge pull request #1 from dubeyjii1526/feature-task2" and an "Extended description" field containing "Feature task2/add solution for question 8". The "Confirm merge" button is highlighted. The right sidebar shows the same metadata as the previous screenshot, but with a "Lock conversation" button at the bottom.

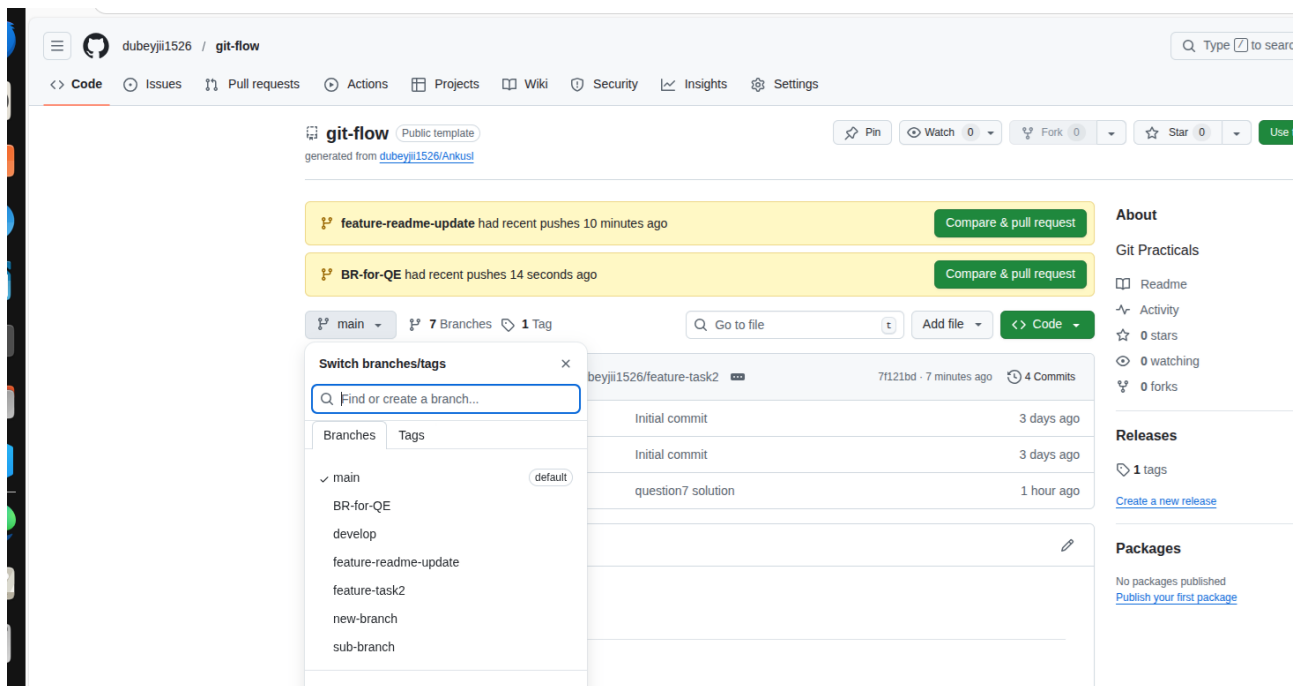
10. For any new build release add a version tag to that specific commit to keep track of each version.

```
feature-task2
main
* new-branch
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout develop
Switched to branch 'develop'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git pull origin develop
From github.com:dubeyjii1526/git-flow
* branch      develop    -> FETCH_HEAD
Already up to date.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git tag -a v1.1.1 -m "new-build release"
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git tag
Command 'giit' not found, did you mean:
  command 'gist' from deb yorick (2.2.04+dfsg1-12)
  command 'git' from deb git (1:2.34.1-1ubuntu1.15)
  command 'gitit' from deb gitit (0.13.0.0+dfsg-2build5)
Try: apt install <deb name>
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git tag
v1.1.1
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin --tags all tags
error: src refspec all does not match any
error: src refspec tags does not match any
error: failed to push some refs to 'github.com:dubeyjii1526/git-flow.git'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin v1.1.1
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 169 bytes | 169.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:dubeyjii1526/git-flow.git
 * [new tag]      v1.1.1 -> v1.1.1
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$
```



11. Create 2 another branch (3rd and 4th) from develop, push read me changes to 3rd branch.

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin v1.1.1
To github.com:dubeyjii1526/git-flow.git
 * [new tag]          v1.1.1 -> v1.1.1
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout develop
Already on 'develop'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout -b feature-readme-update
Switched to a new branch 'feature-readme-update'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ gedit README.md
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git add README.md
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit -m "changes for question 11"
[feature-readme-update 4a4d20f] changes for question 11
1 file changed, 1 insertion(+)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push -u origin feature-readme-update
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-readme-update' on GitHub by visiting:
remote:   https://github.com/dubeyjii1526/git-flow/pull/new/feature-readme-update
remote:
To github.com:dubeyjii1526/git-flow.git
 * [new branch]      feature-readme-update -> feature-readme-update
Branch 'feature-readme-update' set up to track remote branch 'feature-readme-update' from 'origin'.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout develop
Switched to branch 'develop'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout -b BR-for-QE
Switched to a new branch 'BR-for-QE'
```



12. Cherry pick 3rd branch's commit to 4th branch.

```
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git branch
* BR-for-QE
  develop
  feature-readme-update
  feature-task2
  main
  new-branch
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout feature-readme-update
Switched to branch 'feature-readme-update'
Your branch is up to date with 'origin/feature-readme-update'.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git log feature-readme-update --oneline -n 5
4a4d20f (HEAD -> feature-readme-update, origin/feature-readme-update) changes for question 11
2882c2b (tag: v1.1.1, origin/sub-branch, origin/develop, origin/BR-for-QE, develop, BR-for-QE) Initial commit
d154f71 git-flow
c50ce16 Squad
eb35f57 (origin/TE-T109Basics-of-git) Initial setup
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git checkout BR-for-QE
Switched to branch 'BR-for-QE'
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git cherry-pick 4a4d20f
[BR-for-QE 5b21b8f] changes for question 11
Date: Mon Feb 2 12:26:39 2026 +0530
1 file changed, 1 insertion(+)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git add README.md
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git cherry-pick --continue
error: no cherry-pick or revert in progress
fatal: cherry-pick failed
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin BR-for-QE
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 307 bytes | 307.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:dubeyjii1526/git-flow.git
 2882c2b..5b21b8f BR-for-QE -> BR-for-QE
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$
```

Commits

BR-for-QE

changes for question 11

ankush.dubey committed 2 minutes ago

Initial commit

dubeyjii1526 authored and ankush.dubey committed 3 days ago

git-flow

ankush.dubey committed 3 days ago

Squad

ankush.dubey committed 3 days ago

Initial setup

ankush.dubey committed 3 days ago

13. Change commit message in 4th branch.

```
Commit contents options
-a, --all            commit all changed files
-i, --include        add specified files to index for commit
--interactive        interactively add files
-p, --patch          interactively add changes
-o, --only           commit only specified files
-n, --no-verify      bypass pre-commit and commit-msg hooks
--dry-run           show what would be committed
--short             show status concisely
--branch            show branch information
--ahead-behind      compute full ahead/behind values
--porcelain         machine-readable output
--long             show status in long format (default)
-z, --null          terminate entries with NUL
--amend             amend previous commit
--no-post-rewrite   bypass post-rewrite hook
-u, --untracked-files[=<mode>]
                    show untracked files, optional modes: all, normal, no. (Default: all)

--pathspec-from-file <file>
                    read pathspec from file
--pathspec-file-nul with --pathspec-from-file, pathspec elements are separated with NUL character

ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git commit --amend -m "changed message "
[BR-for-QE a87e2b2] changed message
Date: Mon Feb 2 12:26:39 2026 +0530
1 file changed, 1 insertion(+)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin BR-for-QE
To github.com:dubeyjii1526/git-flow.git
 ! [rejected]        BR-for-QE -> BR-for-QE (non-fast-forward)
error: failed to push some refs to 'github.com:dubeyjii1526/git-flow.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push --force-with-lease origin BR-for-QE
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 301 bytes | 301.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:dubeyjii1526/git-flow.git
 + 5b21b8f...a87e2b2 BR-for-QE -> BR-for-QE (forced update)
ankush.dubey@simform.dom@sf-cpu-551:~/Desktop/git-flow/my-project/git-flow$
```

dubeyjii1526 / git-flow

Q Type to search

+

<> Code

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Commits

BR-for-QE

All users

All time

Commits on Feb 2, 2026

changed message

ankush dubey committed 1 minute ago

a87e2b2

<>

Commits on Jan 30, 2026

Initial commit

dubeyjii1526 authored and ankush dubey committed 3 days ago

2882c2b

<>

git-flow

ankush dubey committed 3 days ago

d154f71

<>

Squads

ankush dubey committed 3 days ago

c50ce16

<>

Initial setup

ankush dubey committed 3 days ago

eb35f57

<>

14. Add 3 commit to 4th branch and delete last commit.

```
ankush.dubey@simform.dom@sfc-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git reset --soft HEAD~1
ankush.dubey@simform.dom@sfc-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin BR-for-QE
To github.com:dubeyjii1526/git-flow.git
 ! [rejected]        BR-for-QE -> BR-for-QE (non-fast-forward)
error: failed to push some refs to 'github.com:dubeyjii1526/git-flow.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
ankush.dubey@simform.dom@sfc-cpu-551:~/Desktop/git-flow/my-project/git-flow$ git push origin BR-for-QE --force-with-lease
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:dubeyjii1526/git-flow.git
+ 767cd19...3316a16 BR-for-QE -> BR-for-QE (forced update)
ankush.dubey@simform.dom@sfc-cpu-551:~/Desktop/git-flow/my-project/git-flow$
```

dubeyjii1526 / git-flow

Q Type to search

+

<> Code

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Commits

BR-for-QE

All users

All time

Commits on Feb 2, 2026

second commit

ankush dubey committed 6 minutes ago

3316a16

<>

first commit

ankush dubey committed 7 minutes ago

e628bab

<>

changed message

ankush dubey committed 10 minutes ago

a87e2b2

<>

Commits on Jan 30, 2026

Initial commit

dubeyjii1526 authored and ankush dubey committed 3 days ago

2882c2b

<>

git-flow

ankush dubey committed 3 days ago

d154711

<>

Squasd

ankush dubey committed 3 days ago

c50ce16

<>

Initial setup

ankush dubey committed 3 days ago

eb35f57

<>