

Created a “feature” branch as per Zoho task Id: (TE-T84 Git).

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git flow feature start TE-T84_Git
Switched to a new branch 'feature/TE-T84_Git'

Summary of actions:
- A new branch 'feature/TE-T84_Git' was created, based on 'develop'
- You are now on branch 'feature/TE-T84_Git'

Now, start committing on your feature. When done, use:

  git flow feature finish TE-T84_Git
```

Created a new sub branch from the “feature” branch as below:

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (feature/TE-T84_Git)
$ git checkout feature/TE-T84_Git
Already on 'feature/TE-T84_Git'

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (feature/TE-T84_Git)
$ git checkout -b feature/TE-T84_Git_Sub_branch
Switched to a new branch 'feature/TE-T84_Git_Sub_branch'

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (feature/TE-T84_Git_Sub_branch)
:|
```

Created a new branch from the “develop” Branch:

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git checkout develop
Already on 'develop'

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git branch task_1_branch

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git branch
* develop
  feature/TE-T84_Git
  feature/TE-T84_Git_Sub_branch
  master
  task_1_branch

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
```

Made a new file called commit-msg and add the small script in it regarding the checking of the commit message. (took help of co-pilot).

Had fail in testing due to the permission setup failure.

Done in the second time.

Had performed this task at the end of all the tasks.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (master)
$ dir
task14.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (master)
$ nano task14.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (master)
$ git add .
warning: in the working copy of 'task14.txt', LF will be replaced by CRLF the next time Git touches it

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (master)
$ git commit -m "testing"
X Commit message must include Task ID (TE-T84)

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (master)
$ ...
```

Performing multiple commit in the new branch from the “task_1_branch”.

Made two file : “task2.txt” and “task2_1.txt”

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git checkout task_1_branch
Switched to branch 'task_1_branch'

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ nano task2.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ dir
task2.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ git add .
warning: in the working copy of 'task2.txt', LF will be replaced by CRLF the next time Git touches it

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ git commit -m "first commit"
[task_1_branch 24b3192] first commit
 1 file changed, 2 insertions(+)
 create mode 100644 task2.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ nano task2_1.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ git add .
warning: in the working copy of 'task2_1.txt', LF will be replaced by CRLF the next time Git touches it

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_1_branch)
$ git commit -m "second commit"
[task_1_branch e8369b4] second commit
 1 file changed, 2 insertions(+)
 create mode 100644 task2_1.txt
```

Had created a pull request via GitHub UI instead of the Git CLI.

While using the git cli need to perform the “fetch” from “task_1_branch” to the “develop” branch.

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

The screenshot shows a GitHub pull request interface. At the top, it says "Able to merge. These branches can be automatically merged." Below that, there's a section for discussion and review with a "Create pull request" button. The main area shows statistics: 2 commits, 2 files changed, and 1 contributor. It lists commits from Jan 29, 2026, including "first commit" by 23giant and "second commit" by 23giant. Below this, a diff view shows changes in "task2.txt" and "task2_1.txt". The diff view highlights additions in green and deletions in red. The "Unified" view is selected.

Created new branch as “task_6_branch” from the “develop” while the previous pull request for the “develop” branch was pending.

```
nuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
git checkout task_6_branch
switched to branch 'task_6_branch'
```

Created new file called “task7.txt”

Committed and then push it to the “remote/task_6_branch” .

Also at that time the pull request for the “develop” branch was accepted.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_6_branch)
$ nano task7.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_6_branch)
$ git add .
warning: in the working copy of 'task7.txt', LF will be replaced by CRLF the next
time Git touches it

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_6_branch)
$ git commit -m "commit from new branch of task_6_branch as task7"
[task_6_branch 808fe32] commit from new branch of task_6_branch as task7
 1 file changed, 2 insertions(+)
 create mode 100644 task7.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_6_branch)
$ git push origin task_6_branch
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Writing objects: 100% (3/3), 285 bytes | 285.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'task_6_branch' on GitHub by visiting:
remote:     https://github.com/Anuj232004/git-exercise/pull/new/task_6_branch
remote:
To https://github.com/Anuj232004/git-exercise
 * [new branch]      task_6_branch -> task_6_branch
```

Merge has been successfully that to via GitHub UI instead of Git CLI.

Would use “git merge” to merge the files in “develop” branch via CLI.

The screenshot shows a GitHub repository interface. At the top, there are navigation buttons for 'develop' (with a dropdown arrow), a search icon, a 'Code' button, and a 'Contribute' button. Below this, a message says 'This branch is 1 commit ahead of task_1_branch'. The main area displays a pull request from 'Anuj232004' with the title 'Merge pull request #1 from Anuj232004/task_1...'. The pull request has two commits: 'task2.txt' (first commit, 43 minutes ago) and 'task2_1.txt' (second commit, 41 minutes ago). At the bottom, there is a 'README' section.

Had created a pull request from the “task_6_branch” to the “develop” branch. (via GitHub UI)

Afterward had merge it via UI only.

task6_branch #2

Anuj232004 wants to merge 3 commits into `task_6_branch` from `develop` 

Conversation 0 Commits 3 Checks 0 Files changed 2

Anuj232004 commented now

pull request from develop to the task6_branch for task 9.

23giant and others added 3 commits 2 hours ago

- o  first commit [24b3192](#)
- o  second commit [e8369b4](#)
- o  Merge pull request #1 from Anuj232004/task_1_branch [...](#)  [01629e3](#)

 **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](#)

 Add a comment

Had learnt about the “tag” command and its usage.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git tag v1.0.0
```

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git push origin v1.0.0
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Anuj232004/git-exercise
 * [new tag]      v1.0.0 -> v1.0.0
```

Had created two new branch from the develop branch : “task11_branch3” and “task11_branch4”.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git checkout -b task11_branch3
Switched to a new branch 'task11_branch3'
```

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git checkout -b task11_branch4
Switched to a new branch 'task11_branch4'
```

Had changed the content of “task2.txt” from the “task11_branch3” branch and then commit it and pushed it.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch3)
$ nano task2.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch3)
$ git add .

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch3)
$ git commit -m"made change in the file task2.txt of develop branch by task11_branch3 "
[task11_branch3 e38d5ad] made change in the file task2.txt of develop branch by task11_branch3
 1 file changed, 1 insertion(+), 1 deletion(-)

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch3)
$ git push origin task11_branch3
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), 331 bytes | 331.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'task11_branch3' on GitHub by visiting:
remote:     https://github.com/Anuj232004/git-exercise/pull/new/task11_branch3
remote:
To https://github.com/Anuj232004/git-exercise
 * [new branch]      task11_branch3 -> task11_branch3

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch3)
```

Cherry-pick the commit of “task11_branch3” into the “task1_branch4”:

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch4)
$ git cherry-pick e38d5ad2e51ce63b80c486e1146947298a683ac9
task11_branch4 41a9aed] made change in the file task2.txt of develop branch by task11_branch3
Date: Thu Jan 29 14:46:00 2026 +0530
1 file changed, 1 insertion(+), 1 deletion(-)
```

Changed the name of commit via “amend” from “task11_branch4”.

Forgot to use the rebase -i window and use the squash command along with merging both commit messages to single message.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch4)
$ git commit --amend -m "commit rename from the task11_branch4"
[task11_branch4 32ce854] commit rename from the task11_branch4
Date: Thu Jan 29 14:46:00 2026 +0530
1 file changed, 1 insertion(+), 1 deletion(-)

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch4)
$ git log
commit 32ce85421603e4426a628242f7a0d8a0c5e6c53f (HEAD -> task11_branch4)
Author: Anuj <anujhacker8@gmail.com>
Date: Thu Jan 29 14:46:00 2026 +0530

    commit rename from the task11_branch4
```

Had created 3 files: “task14.txt”, “task14_1.txt” and “task14_2.txt”.

Had committed them from the “task11_branch14” branch:

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch4)
$ git log
commit 1374b21f235494864fc05be7d20b64b9868d2a6a (HEAD -> task11_branch4)
Author: Anuj <anujhacker8@gmail.com>
Date: Thu Jan 29 14:58:42 2026 +0530

    commit3 from the task11_branch4

commit f91ba28f600a47432418628b063749d89bf2d655
Author: Anuj <anujhacker8@gmail.com>
Date: Thu Jan 29 14:58:13 2026 +0530

    commit2 from the task11_branch4

commit 180d17c890e34215402c21c1cc278df030091e46
Author: Anuj <anujhacker8@gmail.com>
Date: Thu Jan 29 14:57:18 2026 +0530

    commit1 from the task 11_branch
```

Deleted the last commit as by resetting the HEAD to the previous commit with hard to delete the commit as well.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch4)
$ git reset --hard HEAD~1
HEAD is now at f91ba28 commit2 from the task11_branch4

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task11_branch4)
$
```

Due to the usage of the UI Pull request I had forgotten the “local/task_6_branch” and “local/develop” branch updation with the “remote/task_6_branch” and “remote/develop” branches after their pull requests being merged from the remote (GitHub UI) only.

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (task_6_branch)
$ git pull origin task_6_branch
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (2/2), 997 bytes | 199.00 KiB/s, done.
From https://github.com/Anuj232004/git-exercise
 * branch      task_6_branch -> FETCH_HEAD
   808fe32..16d0aa5  task_6_branch -> origin/task_6_branch
Updating 808fe32..16d0aa5
Fast-forward
 task2.txt | 2 ++
 task2_1.txt | 2 ++
 2 files changed, 4 insertions(+)
 create mode 100644 task2.txt
 create mode 100644 task2_1.txt
```

```
anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ git pull origin develop
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 920 bytes | 460.00 KiB/s, done.
From https://github.com/Anuj232004/git-exercise
 * branch      develop    -> FETCH_HEAD
   bbc3875..01629e3  develop    -> origin/develop
Updating bbc3875..01629e3
Fast-forward
 task2.txt | 2 ++
 task2_1.txt | 2 ++
 2 files changed, 4 insertions(+)
 create mode 100644 task2.txt
 create mode 100644 task2_1.txt

anuj.shah@SF-CPU-401 MINGW64 ~/git-exercise (develop)
$ dir
task2.txt  task2_1.txt
```