

Pushing git branches to remote repositories

Create a new branch → “git checkout -b bugFix”

```
MINGW32:/e/videos/Study/cs/important/Git and github/Notes/main
first issue1 commit

commit c2162246bbb49236d17e4fb7e607f69f0022456
Author: Suraj <yadavsurajkumar665@gmail.com>
Date:   Sat May 7 20:06:23 2022 +0530

    added index.html

commit a081a457e761b118176d08bfe050f15f72ba8117
Author: Suraj <yadavsurajkumar665@gmail.com>
Date:   Sat May 7 20:01:34 2022 +0530

    Initial commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout bugFix
error: pathspec 'bugFix' did not match any file(s) known to git

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout -b bugFix
Switched to a new branch 'bugFix'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$
```

Make some changes and then commit the changes

```
$ git branch
* bugFix
  master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git status
On branch bugFix
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
      modified: renamedFirst.txt

no changes added to commit (use "git add" and/or "git commit -a")

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git add .

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git commit -m "fixed the bug"
[bugFix 25e1b13] fixed the bug
 1 file changed, 3 insertions(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git status
On branch bugFix
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$
```

Now switch to master branch

```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git status
On branch bugFix
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   renamedFirst.txt

no changes added to commit (use "git add" and/or "git commit -a")

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git add .

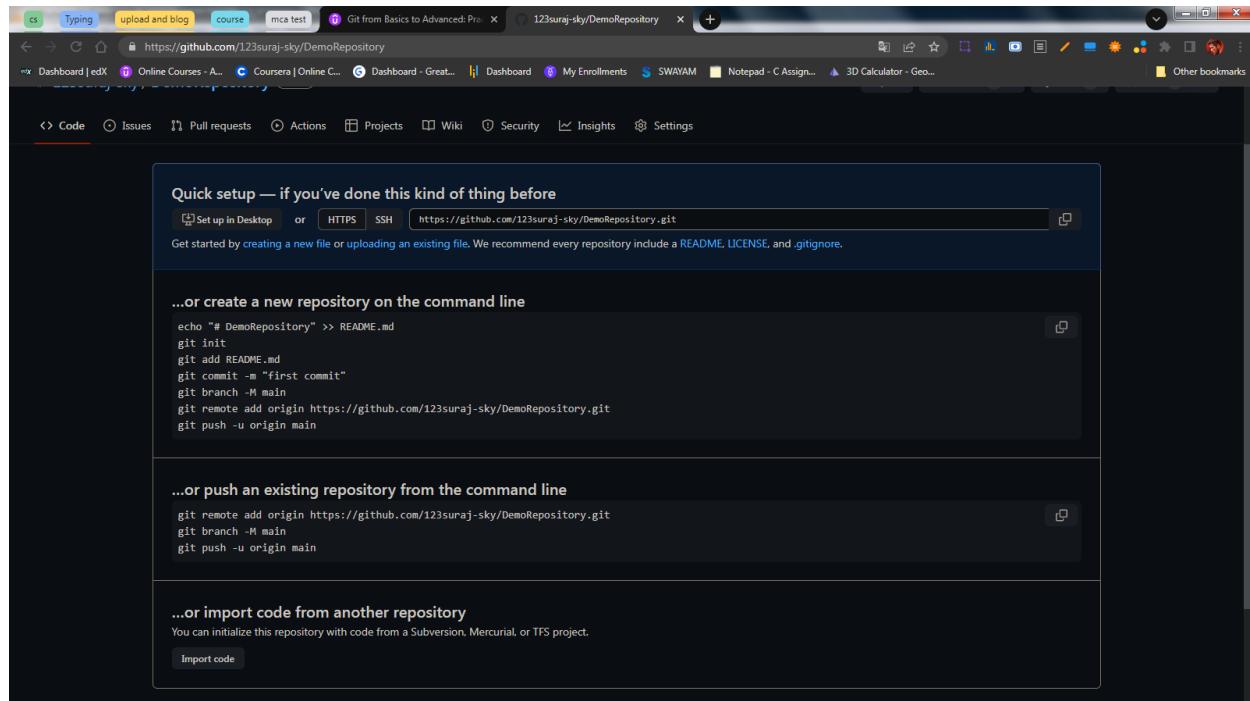
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git commit -m "fixed the bug"
[bugFix 25e1b13] fixed the bug
 1 file changed, 3 insertions(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git status
On branch bugFix
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git checkout master
Switched to branch 'master'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$
```

Run “git remote –v”, it shows nothing as no remote relocation is created. So, for that go to github and create a new repository. Then switch to HTTPS if link is not seemed correct as shown below



and then copy the highlighted code and paste in git and press enter and write “git remote” to see it

The screenshot shows a GitHub repository setup page for a user named '123suraj-sky'. The top navigation bar includes links for 'Dashboard', 'Online Courses - A...', 'Coursera | Online C...', 'Dashboard - Great...', 'Dashboard', 'My Enrollments', 'SWAYAM', 'Notepad - C Assign...', '3D Calculator - Geo...', and 'Other bookmarks'. The main content area is titled 'Quick setup — if you've done this kind of thing before' and provides instructions for cloning a repository or creating a new one. It includes a command-line example for creating a new repository:

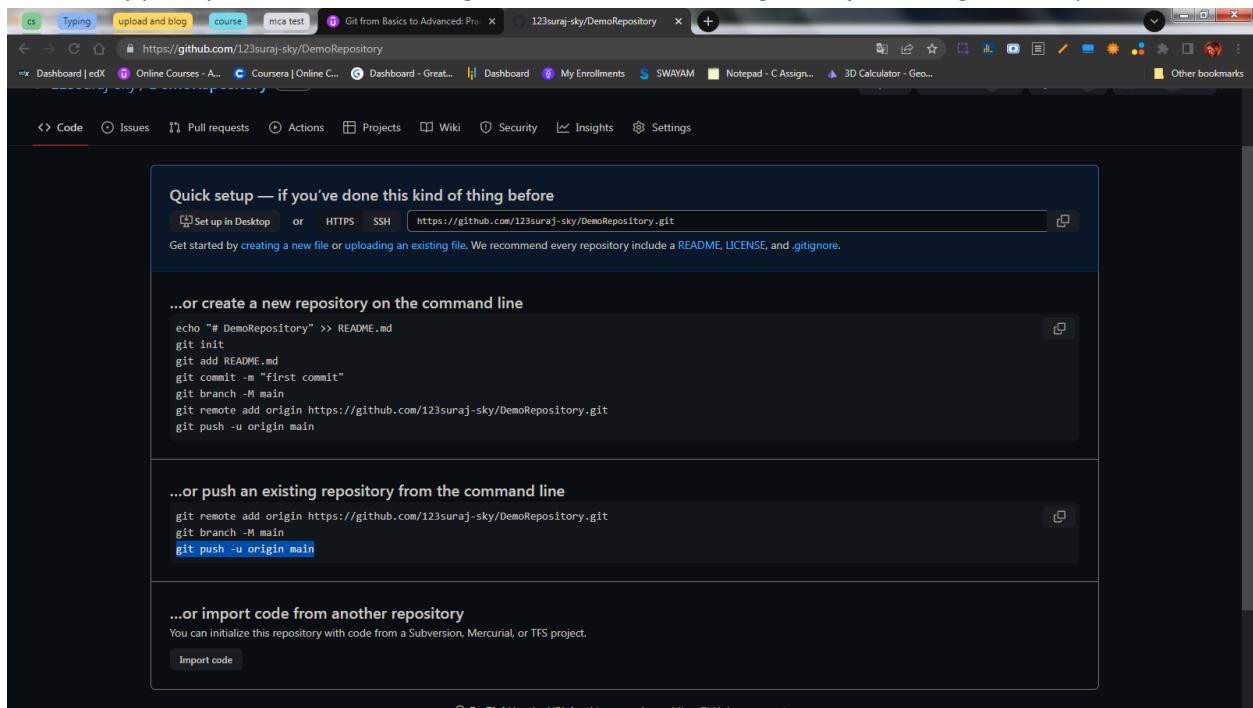
```
echo "# DemoRepository" >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git branch -M main  
git remote add origin https://github.com/123suraj-sky/DemoRepository.git  
git push -u origin main
```

Below this, there are sections for pushing an existing repository and importing code from another repository.

The screenshot shows a terminal window on a Windows system (MINGW32) with the following session log:

```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)  
$ git add .  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)  
$ git commit -m "fixed the bug"  
[bugFix 25e1b13] fixed the bug  
1 file changed, 3 insertions(+), 1 deletion(-)  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)  
$ git status  
On branch bugFix  
nothing to commit, working tree clean  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)  
$ git checkout master  
Switched to branch 'master'  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)  
$ git remote -v  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)  
$ git remote add origin https://github.com/123suraj-sky/DemoRepository.git  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)  
$ git remote  
origin  
  
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)  
$ |
```

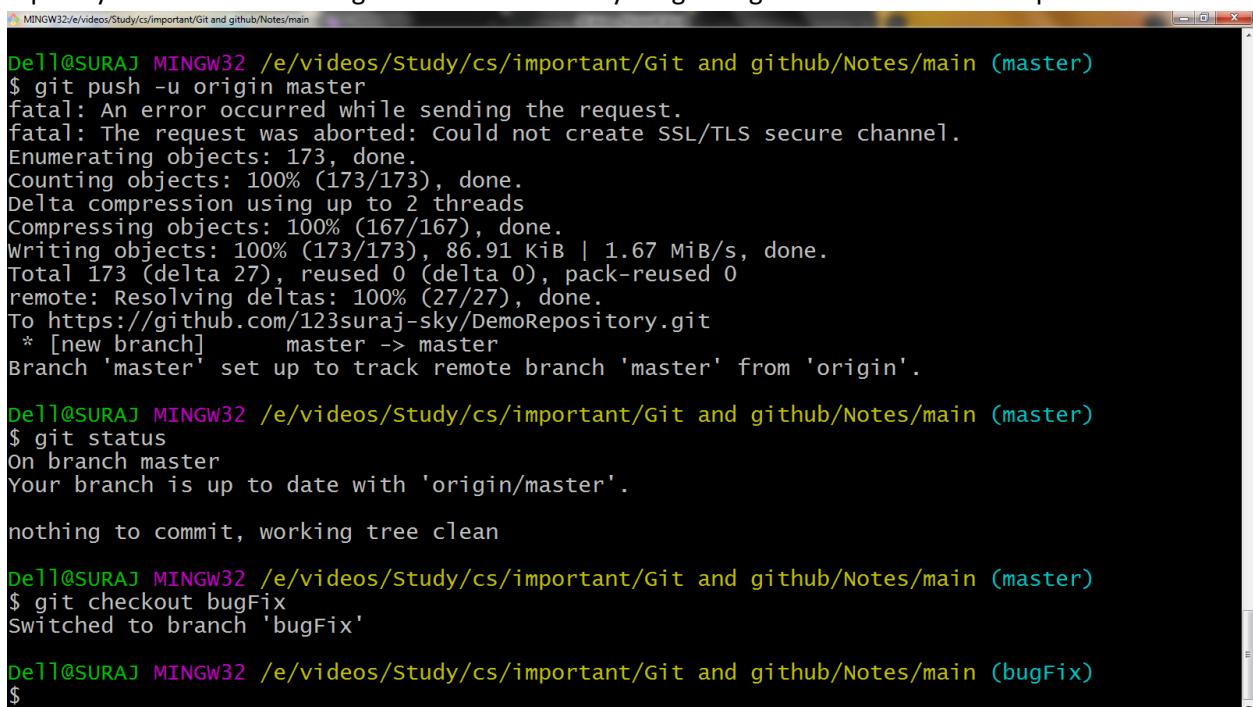
So now copy the push command from github website from the github (just change main by master)



The screenshot shows a browser window with the URL <https://github.com/123suraj-sky/DemoRepository>. The page displays instructions for quick setup, including:

- Quick setup — if you've done this kind of thing before**:
Set up in Desktop or HTTPS SSH <https://github.com/123suraj-sky/DemoRepository.git>
- ...or create a new repository on the command line**:
echo "# DemoRepository" >> README.md
git init
git add README.md
git commit -m "First commit"
git branch -M main
git remote add origin https://github.com/123suraj-sky/DemoRepository.git
git push -u origin main
- ...or push an existing repository from the command line**:
git remote add origin https://github.com/123suraj-sky/DemoRepository.git
git branch -M main
git push -u origin main
- ...or import code from another repository**:
Import code

It will ask you to log in to your github account. In password use Personal Access Token (to create it search on google). But it will only upload master branch because it not uploaded automatically. We have to explicitly do it. Before it run “git status” to see if anything changes. Now switch to that particular branch



```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git push -u origin master
fatal: An error occurred while sending the request.
fatal: The request was aborted: Could not create SSL/TLS secure channel.
Enumerating objects: 173, done.
Counting objects: 100% (173/173), done.
Delta compression using up to 2 threads
Compressing objects: 100% (167/167), done.
Writing objects: 100% (173/173), 86.91 KiB | 1.67 MiB/s, done.
Total 173 (delta 27), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (27/27), done.
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout bugFix
Switched to branch 'bugFix'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$
```

To upload that branch type → “git push origin branchName”

This is a demo repository from code with harry

0 stars
1 watching
0 forks

No releases published
Create a new release

No packages published
Publish your first package

C 99.9% • HTML 0.1%

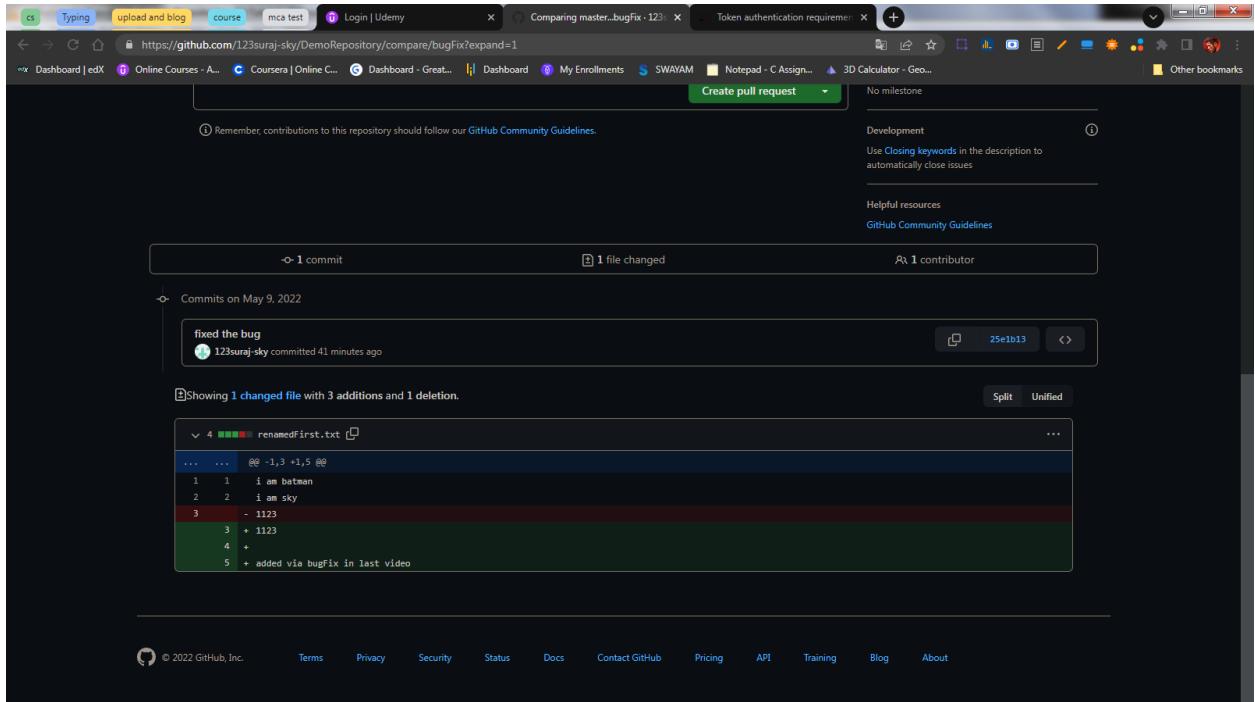
```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git checkout bugFix
Switched to branch 'bugFix'

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git push origin bugFix
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 317 bytes | 317.00 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 'bugFix' on GitHub by visiting:
remote:     https://github.com/123suraj-sky/DemoRepository/pull/new/bugFix
remote:
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      bugFix -> bugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ |
```



Note: Always go to that branch which you want to push

To give new name to branch in remote location different from .git folder → “git push origin branchName:newBranchName”

```

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git push origin bugFix
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 317 bytes | 317.00 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 'bugFix' on GitHub by visiting:
remote:   https://github.com/123suraj-sky/DemoRepository/pull/new/bugFix
remote:
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      bugFix -> bugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git push origin bugFix:NewBugFix
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'NewBugFix' on GitHub by visiting:
remote:   https://github.com/123suraj-sky/DemoRepository/pull/new/NewBugFix
remote:
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      bugFix -> NewBugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ |

```

Now merging changes in master

```
remote: Create a pull request for 'bugFix' on GitHub by visiting:
remote:     https://github.com/123suraj-sky/DemoRepository/pull/new/bugFix
remote:
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      bugFix -> bugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git push origin bugFix:NewBugFix
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'NewBugFix' on GitHub by visiting:
remote:     https://github.com/123suraj-sky/DemoRepository/pull/new/NewBugFix
remote:
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      bugFix -> NewBugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  bugFix
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$
```

"git merge branchName"

```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git push origin bugFix:NewBugFix
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'NewBugFix' on GitHub by visiting:
remote:     https://github.com/123suraj-sky/DemoRepository/pull/new/NewBugFix
remote:
To https://github.com/123suraj-sky/DemoRepository.git
 * [new branch]      bugFix -> NewBugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (bugFix)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  bugFix
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git merge bugFix
Updating 973a1c9..25e1b13
Fast-forward
 renamedFirst.txt | 4 +---+
 1 file changed, 3 insertions(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

here is no merge conflicts if it occurs it tells us

Now we can delete that branch if we don't need it → “git branch –d branchName”

```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch
  bugFix
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git merge bugFix
Updating 973a1c9..25e1b13
Fast-forward
  renamedFirst.txt | 4 +---+
  1 file changed, 3 insertions(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -d bugFix
Deleted branch bugFix (was 25e1b13).

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$
```

Now push the changes → “git push origin master”

```
* master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git merge bugFix
Updating 973a1c9..25e1b13
Fast-forward
  renamedFirst.txt | 4 +---+
  1 file changed, 3 insertions(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -d bugFix
Deleted branch bugFix (was 25e1b13).

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git push origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/123suraj-sky/DemoRepository.git
  973a1c9..25e1b13  master -> master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```

How to delete branches in remote → “git push -d origin branchName”

```
MINGW32:/e/videos/Study/cs/important/Git and github/Notes/main
Fast-forward
 renamedFirst.txt | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git branch -d bugFix
Deleted branch bugFix (was 25e1b13).

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git push origin master
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/123suraj-sky/DemoRepository.git
  973a1c9..25e1b13  master -> master

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ git push -d origin bugFix
To https://github.com/123suraj-sky/DemoRepository.git
 - [deleted]      bugFix

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/main (master)
$ |
```