**Operations** 

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## 1. Basic Remote to Local Operation

Before executing the below commands visit githib.com then create a new public repository, then copy the https URL. The copied URL will be used for cloning your repository to a local directory.

PS D:\IN\_Progrss\GIT\GIT\_CLASS> git clone https://github.com/dreadwing148/bandm.git

Cloning into 'bandm'...

warning: You appear to have cloned an empty repository.

PS D:\IN\_Progrss\GIT\GIT\_CLASS> cd bandm

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> echo "<h1>Hello everyone, Let's see how to create branches</h1>" >index.html

PS D:\IN Progrss\GIT\GIT CLASS\bandm> git add index.html

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git commit -m "repo cloned and index.html file was created with a h1 tag"

[main (root-commit) 368cc9a] repo cloned and index.html file was created with a h1 tag

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 index.html

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git push

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Delta compression using up to 20 threads



Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 336 bytes | 112.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/dreadwing148/bandm.git

\* [new branch] main -> main

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git pull

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Compressing objects: 100% (2/2), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Unpacking objects: 100% (3/3), 1.09 KiB | 111.00 KiB/s, done.

From https://github.com/dreadwing148/bandm

368cc9a..6972ba4 main -> origin/main

Updating 368cc9a..6972ba4

Fast-forward

index.html | Bin 120 -> 328 bytes

1 file changed, 0 insertions(+), 0 deletions(-)

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm>

## 2. Branching and Merging

In order to perform branching and merging operations we need an existing repository which has files inside.

```
PS D:\IN_Progrss\GIT\GIT_CLASS\bandm> git clone https://github.com/dreadwing148/bandm.git
Cloning into 'bandm'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 9 (delta 1), reused 7 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (1/1), done.
PS D:\IN_Progrss\GIT\GIT_CLASS\bandm> git branch
* main
PS D:\IN_Progrss\GIT\GIT_CLASS\bandm> git branch newb
PS D:\IN_Progrss\GIT\GIT_CLASS\bandm> git branch
* main
 newb
PS D:\IN_Progrss\GIT\GIT_CLASS\bandm> git checkout newb
Switched to branch 'newb'
PS D:\IN_Progrss\GIT\GIT_CLASS\bandm> git branch
```

main

\* newb

(----- add files with new content or make changes in the existing file -----)

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git add index.html

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git commit -m "new line added to index.html after creating a branch 'newb"

[newb bcad441] new line added to index.html after creating a branch 'newb'

1 file changed, 1 insertion(+)

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git checkout main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git merge newb

Updating 6972ba4..bcad441

Fast-forward

index.html | 1 +

1 file changed, 1 insertion(+)

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git push

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 20 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 342 bytes | 171.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/dreadwing148/bandm.git

6972ba4..bcad441 main -> main

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm> git branch -d newb

Deleted branch newb (was bcad441).

PS D:\IN\_Progrss\GIT\GIT\_CLASS\bandm>