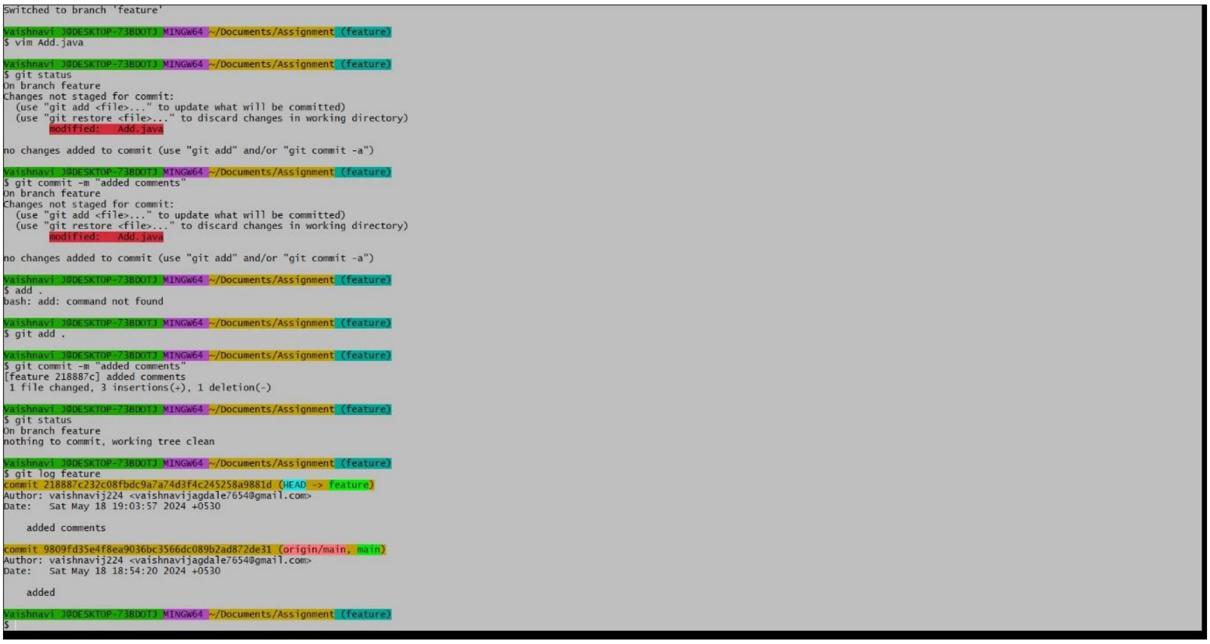
Assignment 2:

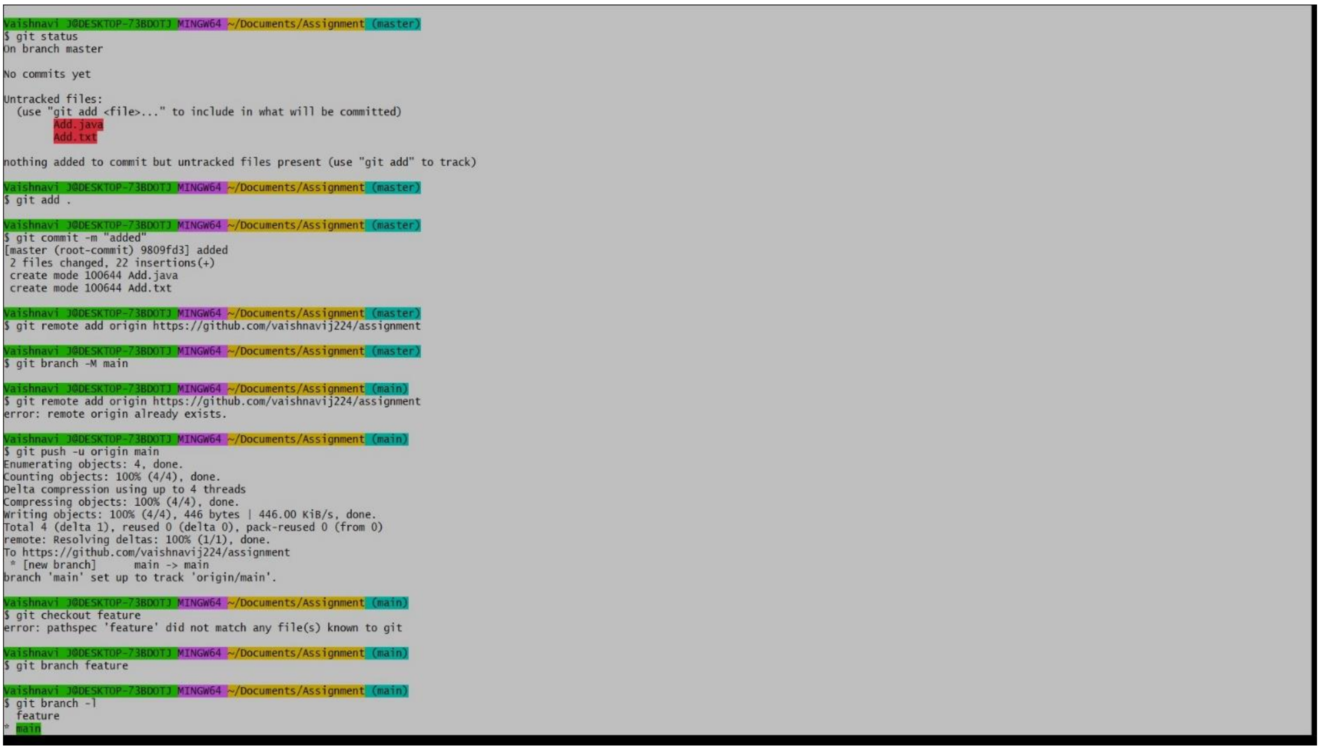
Branch Creation and Switching

Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.



```
Switched to branch 'feature'

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ vim Add.java

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git status
On branch feature
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:   Add.java

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

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git commit -m "added comments"
On branch feature
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:   Add.java

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

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ add .
bash: add: command not found

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git add .

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git commit -m "added comments"
[feature 218887c] added comments
 1 file changed, 3 insertions(+), 1 deletion(-)

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git status
On branch feature
nothing to commit, working tree clean

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git log feature
commit 218887c232c08fbdc9a7a74d3f4c245258a9881d (HEAD -> feature)
Author: vaishnavij224 <vaishnavijagdale7654@gmail.com>
Date:   Sat May 18 19:03:57 2024 +0530

    added comments

commit 9809fd35e4f8ea9036bc3566dc089b2ad872de31 (origin/main, main)
Author: vaishnavij224 <vaishnavijagdale7654@gmail.com>
Date:   Sat May 18 18:54:20 2024 +0530

    added

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$
```

```
Switched to branch 'feature'

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ vim Add.java

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git status
On branch feature
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:   Add.java

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

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git commit -m "added comments"
On branch feature
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:   Add.java

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

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ add .
bash: add: command not found

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git add .

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git commit -m "added comments"
[feature 218887c] added comments
 1 file changed, 3 insertions(+), 1 deletion(-)

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git status
On branch feature
nothing to commit, working tree clean

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$ git log feature
commit 218887c232c08fbdc9a7a74d3f4c245258a9881d (HEAD -> feature)
Author: vaishnavij224 <vaishnavijagdale7654@gmail.com>
Date:   Sat May 18 19:03:57 2024 +0530

    added comments

commit 9809fd35e4f8ea9036bc3566dc089b2ad872de31 (origin/main, main)
Author: vaishnavij224 <vaishnavijagdale7654@gmail.com>
Date:   Sat May 18 18:54:20 2024 +0530

    added

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (feature)
$
```



```
Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (master)
$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (master)
$ git add .

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (master)
$ git commit -m "added"
[master (root-commit) 9809fd3] added
 2 files changed, 22 insertions(+)
 create mode 100644 Add.java
 create mode 100644 Add.txt

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (master)
$ git remote add origin https://github.com/vaishnavij224/assignment

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (master)
$ git branch -M main

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (main)
$ git remote add origin https://github.com/vaishnavij224/assignment
error: remote origin already exists.

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 446 bytes | 446.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/vaishnavij224/assignment
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (main)
$ git checkout feature
error: pathspec 'feature' did not match any file(s) known to git

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (main)
$ git branch feature

Vaishnavi J@DESKTOP-73BDOTJ MINGW64 ~/Documents/Assignment (main)
$ git branch -l
  feature
* main
```

Here's how you can create a new branch named 'feature' and switch to it, make changes, and commit them in Git:

1. Create and Switch to Branch:

git checkout -b feature

This command combines two Git operations:

- git checkout: This tells Git to switch to a specific branch.
- -b: This flag tells git checkout to create a new branch if it doesn't already exist.

2. Make Changes:

Now that you're in the 'feature' branch, make your desired changes to the files in your project.

3. Commit Changes:

Once you've made your changes, stage them using git add:

Replace <filename1> and <filename2> with the actual names of the files you modified. You can also use git add . to stage all modified files in the current directory.

Then, commit your staged changes with a descriptive message using git commit:

Verification:

- To verify that you're currently in the 'feature' branch, you can use the git branch command:

Bash

```
git branch
```

This will list all branches in your repository, with the current branch marked with an asterisk (*).

- To see the history of commits in the 'feature' branch, you can use git log:

Bash

```
git log feature
```

This will show you the commit messages and other details of the commits made in the 'feature' branch.