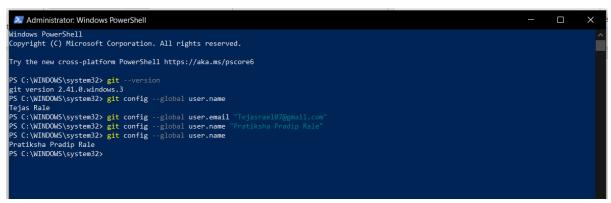
Commands for Git: Open Source Contribution

1) If You want to see the git version git –version

- 2) Want to add user's name or email address git config --global user.name "Pratiksha Pradip Rale" git config --global user.email "pprale@mitaoe.ac.in
- 3) Want to show name and email through command prompt or windows powershell

git config --global user.name



4) Want to edit information through config file git config --global --edit

```
Administrator. Windows PowerShell

Administrator. Windows PowerShell

Amane = Pratiksha Pradip Rale
email = Tejasrael07@gmail.com
```

Editable changes under config file:

```
Administrator: Windows PowerShell

[user]

name = Pratiksha Pradip Rale

email = pratiksharale221@gmail.com
```

If you try to make changes withing same file:

Making new directory:

mkdir newProject22

Comes under that particular folder:

cd newProject22

```
PS C:\Users\Admin> <mark>cd</mark> newProject22/
PS C:\Users\Admin\newProject22>
```

```
git init
ls
ls -a
```

Below command is used for showing the history of the changes and have to commit it.

Below command is for used for keeping track on particular file:

For Committing project:

```
PS C:\Users\Admin\newProjectGit> git commit -m "initial commit"
[master (root-commit) a594494] initial commit
1 file changed, 8 insertions(+)
create mode 100644 sum.java

PS C:\Users\Admin\newProjectGit>
```

For showing that how many times commits has been happened:

```
PS C:\Users\Admin\newProjectGit> git log
commit a594494daa552dea9ec41cc89d30af71174d94ae (HEAD -> master)
Author: Pratiksha Pradip Rale <Tejasrael07@gmail.com>
Date: Mon Aug 7 16:40:44 2023 +0530

initial commit
PS C:\Users\Admin\newProjectGit>
```

After adding one more file in the folder: Changes file and untracked files.

```
After adding diff.java file to through linux console
```

```
PS C:\Users\Admin\newProjectGit> git add diff.java
PS C:\Users\Admin\newProjectGit> git status
On branch master
Changes to be committed:
    (use "git restore --staged <file>..." to unstage)
        new file: diff.java

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: sum.java

PS C:\Users\Admin\newProjectGit>
```

Both the commits has different hash-code:

```
PS C:\Users\Admin\newProjectGit> git log
commit 4c062b64fd066ff014ae33b448ffc56005a13c5e (HEAD -> master)
Author: Pratiksha Pradip Rale <Tejasrael07@gmail.com>
Date: Mon Aug 7 17:03:40 2023 +0530

adding diff.java file

(commit a594494daa552dea9ec41cc89d30af71174d94ae
Author: Pratiksha Pradip Rale <Tejasrael07@gmail.com>
Date: Mon Aug 7 16:40:44 2023 +0530

initial commit
PS C:\Users\Admin\newProjectGit>
```

git add. → Command is used for making all files in the staging area or we can say that, we can add all files at the same time in the staging area.

git checkout <hashcode> → for discard all the changes, expect starting change.

git branch → For checking the branch name (mostly it will be master branch)

```
initial commit
PS C:\Users\Admin\newProjectGit> git branch
* master
PS C:\Users\Admin\newProjectGit> git branch
* master
PS C:\Users\Admin\newProjectGit> git checkout master
PS C:\Users\Admin\newProjectGit> git checkout master
MAlready on 'master'
M sum.java
PS C:\Users\Admin\newProjectGit>
```

git branch dev → If you want to make branch other than master branch → Basically, master branch is connected to the all other branches that you make.

```
PS C:\Users\Admin\newProjectGit> git branch dev
PS C:\Users\Admin\newProjectGit>
```

git branch→Here, now it is showing two different branches: dev & master

```
PS C:\Users\Admin\newProjectGit> git branch
l dev
* master
PS C:\Users\Admin\newProjectGit>
```

git checkout dev→If you want to switch from one branch to another branch:

```
PS C:\Users\Admin\newProjectGit> git checkout dev
Switched to branch 'dev'
M sum.java
PS C:\Users\Admin\newProjectGit>
```

git checkout -b pratiksha/multiply→ This command is useful for making new branch and directly switching into it.

```
PS C:\Users\Admin\newProjectGit> git checkout -b pratiksha/multiply
Switched to a new branch 'pratiksha/multiply'
PS C:\Users\Admin\newProjectGit>
```

git status→ for seeing your file is on track or not, for that you have to add and commit that file to the branch.

```
PS C:\Users\Admin\newProjectGit> git add multiply.java
PS C:\Users\Admin\newProjectGit> git commit -m "adding multiply.java program"

[pratiksha/multiply 99f97d1] adding multiply.java program

1 file changed, 3 insertions(+)

create mode 100644 multiply.java
PS C:\Users\Admin\newProjectGit>
```

IMPORTANT:

- When I tried to switch from one branch to another, it is not showing me files that I have created under previous branch, it is just showing me which files that I have created before in that particular branch.
- E.g., I have created files add.java & diff.java under the **dev** branch and I get switched to new branch i.e., **Pratiksha/multiply** branch and afterwards, I have created one file in that branch which is multiply.java.
- Again, I get switched from pratiksha/multiply branch to dev branch and in vscode it is not showing me the <u>multiply.java</u> file.

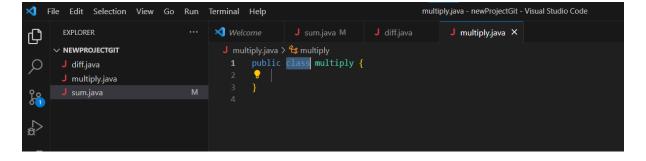
```
PS C:\Users\Admin\newProjectGit> git checkout dev
Switched to branch 'dev'
M sum.java
PS C:\Users\Admin\newProjectGit>
```



<u>Note</u>: git merge pratiksha/multiply → If you want to add that <u>multiply.java</u> file from that pratiksha/multiply branch to this dev branch, means we want that dev branch also has that features we can do that by using the **merge** command.

```
PS C:\Users\Admin\newProjectGit> git merge pratiksha/multiply
Updating 4c062b6..99f97d1
Fast-forward
multiply.java | 3 ++++
1 file changed, 3 insertions(+)
create mode 100644 multiply.java
PS C:\Users\Admin\newProjectGit>
```

File has been added to the vscode means under the **dev** branch.



git merge dev \rightarrow When you are making changes under different branches that changes are not shown to the master branch, for that we have to switched to the master branch and merge all the changes from the previous branch.

```
PS C:\Users\Admin\newProjectGit> git checkout master
Switched to branch 'master'

M sum.java

PS C:\Users\Admin\newProjectGit> git merge dev

Updating 4c062b6..99f97d1

Fast-forward

multiply.java | 3 +++

1 file changed, 3 insertions(+)

create mode 100644 multiply.java

PS C:\Users\Admin\newProjectGit>
```

<u>HIDE</u>: If you want any sensitive information should not be shown to the GitHub ecosystem.

For that you make gitignore file, there are two ways to make it ->

- 1. touch .Gitignore
- 2. You can make New File in VSCode. (.gitignore)



It is showing:

This secretkey.txt file will get hide.



It is not showing:

Pushing Project through Github:

```
PS C:\Users\Admin\newProjectGit> git remote -v
PS C:\Users\Admin\newProjectGit>
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/Pratiksha228/Git.git
git branch -M main
git push -u origin main
```