

## 2.Creating and Managing Branches:

- ❖ Creating a new branch named “feature-branch.” Switch to the “master “ branch. Merge the “feature -branch” into “master.

### Step 1:

- ❖ `git branch feature-branch` ->This will create a new branch of the master branch in which the contents and files are copied from the master branch.
- ❖ `git branch`->This command will show all the branches which we have made and the current branch will be in green colour.

### Step 2:

- ❖ `git checkout <branch name>`-> It is used to switch one branch to another branch, Here we are moving from branch master to the feature-branch.
- ❖ And also we can edited the file(file.txt).

### Step 3:

- ❖ Here in the feature-branch we staged the file and commit with appropriate message that “1<sup>st</sup> line of FB(v1)”.
- ❖ So here the file has been changed, but in the master branch it will be as it is until we merge the feature-branch with the master branch.

### Step 4:

- ❖ For merging the file to the master branch we first need to move to the main /master branch using “`git checkout master`” command.
- ❖ Then we can merge the branch with “`git merge feature-branch`” command.
- ❖ So, now the files will be merged ,the changes or the edits in the feature-branch will be merged.

```
arpitagalkar@LAPTOP-3584P7B4:~$ cd Akshata
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git init
Reinitialized existing Git repository in /home/arpitagalkar/Akshata/.git/
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ touch dot.txt
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ ls
dot.txt  pk.txt
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git add dot.txt
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git commit -m "file created"
On branch master
nothing to commit, working tree clean
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ vi pk.txt
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git log
commit 4397ac2a81f71ee839fa4302a719db7da20e79d6 (HEAD -> master)
Author: Arpita <arpi@123gmail.com>
Date:   Fri Nov 29 22:49:05 2024 +0530

    added a file
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git branch
* master
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git branch naykodi
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git checkout naykodi
Switched to branch 'naykodi'
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git merge naykodi
Already up to date.
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git push origin naykodi
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git branch
  master
* naykodi
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git checkout master
Switched to branch 'master'
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git branch
* master
  naykodi
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git branch -d naykodi
Deleted branch naykodi (was 4397ac2).
```