3.Creating and Managing Branches:

❖ Write the commands to stash your changes, switch branches , and then apply the stashed changes.

Step 1:

❖ Moving to the feature branch and have made the changes in the file(file .txt) using the commands git checkout feature branch and vi file.txt for the changing the branch and editing the file respectively.
❖ Here we have not staged and committed the changes in the file(file.txt).

Step 2:

❖ In this step we have stashed the changes which have been made in the file.txt file in the feature branch .
❖ Here we have not added / staged the file and committed the changes .
❖ The changes will be saved in the branch without the committing the changes.
❖ The command used for stashing the changes is "git stash".

Step 3:

❖ Before applying the changes made in the feature branch, first we need move to the master branch.
❖ Then in the master branch we applied the stash using "git stash apply" where changes made in the feature branch.
❖ After applying the stash to the master .It will give us a message saying that the applied stash is not staged and committed in the master branch.

Step 4:

❖ After stashing we check status using "git status" ,there it shows that the file(file.txt) is modified but not staged yet.
❖ After staging ,if we check the status again it shows that changes to be committed yet.
❖ Committed with appropriate message that "FB code & stash code".
❖ After committing the changes we can see the log of the repository.

```
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  file.txt  pk.txt
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git branch feature-branch
fatal: A branch named 'feature-branch' already exists.
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git checkout feature-branch
Already on 'feature-branch'
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ vim file.txt
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git stash
Saved working directory and index state WIP on feature-branch: 011da82 FB code and stash code
```

```
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git stash apply
On branch feature-branch
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:   file.txt

no changes added to commit (use "git add" and/or "git commit -a")
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git status
On branch feature-branch
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:   file.txt

no changes added to commit (use "git add" and/or "git commit -a")
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git add .
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git status
On branch feature-branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   file.txt

arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git commit -m "FB code and Stash code"
[feature-branch 10315cd] FB code and Stash code
 1 file changed, 8 insertions(+), 1 deletion(-)
```

```
arpitagalkar@LAPTOP-3584P7B4:~/Akshata$ git log
commit 10315cd5ad33600af68f2dd38e2b5f93be805c3e (HEAD -> feature-branch)
Author: Arpita <arpi@123gmail.com>
Date:   Sat Nov 30 10:08:29 2024 +0530

    FB code and Stash code

commit 011da8233828335d3ed15ff83efbd25432fc0496
Author: Arpita <arpi@123gmail.com>
Date:   Sat Nov 30 10:03:51 2024 +0530

    FB code and stash code

commit 4397ac2a81f71ee839fa4302a719db7da20e79d6 (master)
Author: Arpita <arpi@123gmail.com>
Date:   Fri Nov 29 22:49:05 2024 +0530

    added a file
```