## **Problem Statement 5: Branching**

- Create a new branch using git branch.
- Switch between branches using git checkout.

#### **Solution:**

Git branch - used to list all the branches in git.

Git branch branch name- used to create a new branch in git.

Git checkout branch name - used to switch from one branch to another branch.

```
C:\Users\DELL\gitsample>git branch
* master
C:\Users\DELL\gitsample>git branch feature
C:\Users\DELL\gitsample>git branch
  feature
* master
C:\Users\DELL\gitsample>git checkout feature
Switched to branch 'feature'
C:\Users\DELL\gitsample>git branch
* feature
  master
C:\Users\DELL\gitsample>git push -u origin feature
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
             https://github.com/kavinvelavan/gitsample/pull/new/feature
remote:
remote:
To https://github.com/kavinvelavan/gitsample.git
* [new branch]
                     feature -> feature
branch 'feature' set up to track 'origin/feature'.
```

### **Problem Statement 6: Merging Branches**

- Create a feature branch, make changes, and then merge it back into the main branch.
- Resolve any merge conflicts that may occur during the merging process.

#### **Solution:**

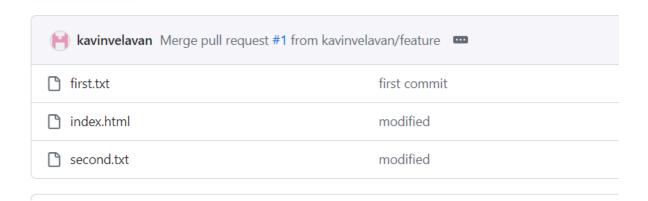
```
C:\Users\DELL\gitsample>git add .
C:\Users\DELL\gitsample>git commit "modified"
error: pathspec 'modified' did not match any file(s) known to git

C:\Users\DELL\gitsample>git commit -m "modified"
[master 5e4caa3] modified
  1 file changed, 2 insertions(+), 1 deletion(-)

C:\Users\DELL\gitsample>git push origin feature
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote: https://github.com/kavinvelavan/gitsample/pull/new/feature
remote:
To https://github.com/kavinvelavan/gitsample.git
  * [new branch] feature -> feature
```

```
C:\Users\DELL\gitsample>git branch
* feature
  master
C:\Users\DELL\gitsample>git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
C:\Users\DELL\gitsample>git pull origin master
From https://github.com/kavinvelavan/gitsample
* branch
                               -> FETCH_HEAD
                    master
Already up to date.
C:\Users\DELL\gitsample>git merge feature
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.
```

Go to github click the pull request and compare then resolve the conflicts.



```
C:\Users\DELL\gitsample>git add .
C:\Users\DELL\gitsample>git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
 (use "git push" to publish your local commits)
All conflicts fixed but you are still merging.
 (use "git commit" to conclude merge)
Changes to be committed:
       modified: index.html
C:\Users\DELL\gitsample>git commit -m "conflicts fix"
[master 8be6366] conflicts fix
C:\Users\DELL\gitsample>git merge feature
Already up to date.
C:\Users\DELL\gitsample>git branch
 feature
* master
```

C:\Users\DELL\gitsample>git branch -d feature Deleted branch feature (was 6e21894).

C:\Users\DELL\gitsample>git branch

\* master

# After deleting the feature branch in the github

