

**Ex No:**

**Date:**

## **MAKE CHANGES TO FILES IN DIFFERENT BRANCHES AND PERFORM PULL REQUESTS AND MERGING**

### **AIM:**

To make changes to files in different branches, perform pull requests, and merge those changes in a Git repository.

### **PROCEDURE:**

#### **1) Initialize a Git Repository:**

Start by creating a Git repository (if one doesn't exist already) by running `git init` in the project directory or cloning an existing repository using `git clone <repository url>`.

#### **2) Create and Switch to a New Branch:**

Create a new branch to work on by using the command `git checkout -b <branch name>`. This ensures that the changes you make will not affect the main branch until they are merged.

#### **3) Make Changes in the Branch:**

Modify or add files in your new branch. After making changes, save the files.

#### **4) Stage the Changes:**

Use `git add <file name>` to stage the files you've modified. You can stage all modified files using `git add .` to add everything.

#### **5) Commit the Changes:**

Commit the staged changes with a descriptive message using `git commit -m "Description of changes"`. This records the changes in your branch.

#### **6) Push the Branch to Remote:**

Push your local branch to the remote repository by running `git push origin <branch name>`. This makes your branch and changes available on the remote server.

#### **7) Switch to Another Branch:**

If you need to work on a different branch (e.g., main), switch using `git checkout <branch name>`. Make sure to pull the latest changes from the remote repository using `git pull origin <branch name>`.

### 8) Make Changes in Another Branch:

After switching to the other branch, make and commit different changes to the files in this branch as required, just like you did in the first branch.

### 9) Create a Pull Request (PR):

Go to the Git repository hosting service (like GitHub, GitLab, or Bitbucket). Create a pull request from the branch with your changes to the target branch (typically main or develop). Add a title and description for the pull request.

### 10) Review and Merge the Pull Request:

Once the pull request is created, review the changes. If everything looks good, approve the pull request and merge it into the target branch. This can be done via the GitHub/GitLab/Bitbucket interface or using the command line (`git merge <branch name>` if you are working locally).

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|-------------|----|--|--|
| PREPARATION | 10 |  |  |
| OBSERVATION | 10 |  |  |
| OUTPUT      | 10 |  |  |
| VIVA        | 10 |  |  |
| RECORD      | 10 |  |  |

### RESULT:

Object Oriented programming concepts of Scala is studied and executed successfully.