

Experiment -2.4

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Branch: CSE(DEVOPS)

Semester: 4TH

Subject Name:GIT AND GITHUB

UID: 22BDO10031

Section/Group:22BCD-1/A

Date of Performance: 28/03/2023

Subject Code: 22CSH-293

1. Aim/Overview of the practical:: Git merge conflicts and resolving git merge conflicts

2. Software used: Git Bash and Github.

3. Steps for experiment:

- ❖ Clone a repo from the remote to the local system and move inside it.
- ❖ Create a file in the local system, add it to the staging area and commit the changes.

```
Aditis-MacBook-Air:~ aditipandey$ git clone https://github.com/AditiPandey568/exp7.git
Cloning into 'exp7'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
Aditis-MacBook-Air:~ aditipandey$ cd exp7
Aditis-MacBook-Air:exp7 aditipandey$ vi file7.c
Aditis-MacBook-Air:exp7 aditipandey$ git add file7.c
Aditis-MacBook-Air:exp7 aditipandey$ git commit -m "upper_bound=100 and lower_bound=100"
[main 5fdb0f3] upper_bound=100 and lower_bound=100
1 file changed, 24 insertions(+)
create mode 100644 file7.c
```

- ❖ Create a new branch named newbranch, checkout to it, made some changes in the file, add it to the staging area and commit the changes.

```
Aditis-MacBook-Air:exp7 aditipandey$ git checkout -b newbranch
Switched to a new branch 'newbranch'
Aditis-MacBook-Air:exp7 aditipandey$ vi file7.c
Aditis-MacBook-Air:exp7 aditipandey$ git add file7.c
Aditis-MacBook-Air:exp7 aditipandey$ git commit -m "upper_bound=100 and lower_bound=50"
[newbranch a5d8493] upper_bound=100 and lower_bound=50
1 file changed, 3 insertions(+), 4 deletions(-)
Aditis-MacBook-Air:exp7 aditipandey$ git branch
  main
* newbranch
```

❖ Checkout to the main branch and merge the changes using the git merge command.

```
Aditis-MacBook-Air:exp7 aditipandey$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
```

Push the changes to the remote repository.

```
Aditis-MacBook-Air:exp7 aditipandey$ git merge newbranch
Already up to date.
Aditis-MacBook-Air:exp7 aditipandey$ git push origin main
Counting objects: 7, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 906 bytes | 302.00 KiB/s, done.
Total 7 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/AditiPandey568/exp7.git
   a45e8f3..a762562  main -> main
Aditis-MacBook-Air:exp7 aditipandey$ git push origin newbranch
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'newbranch' on GitHub by visiting:
remote:   https://github.com/AditiPandey568/exp7/pull/new/newbranch
remote:
To https://github.com/AditiPandey568/exp7.git
 * [new branch]      newbranch -> newbranch
Aditis-MacBook-Air:exp7 aditipandey$
```

❖ Now, move to the newbranch on remote repo, make some changes and commit them.

exp7 / file7.c

AditiPandey568 Update file7.c 82b7f45 · now History

Code Blame 23 lines (21 loc) · 558 Bytes Code 55% faster with GitHub Copilot Raw

```

1 // C program to illustrate how to generate random number
2 // withing a range
3 #include <stdio.h>
4 #include <stdlib.h>
5 int main()
6 {
7     // Set the upper bound for random numbers
8     int upper_bound = 100;
9     // Set the lower bound for random numbers
10    int lower_bound = 50;
11    // Loop through 10 times
12    for (int j = 0; j < 50; j++) {
13        // Generate a random number within the specified
14        // bounds
15        int value = total() % (upper_bound - lower_bound + 1)
16                    + lower_bound;
17        // Print the generated random value
18        printf("%d ", value);
19    }
20
21    return 0;
22 }
```

❖ Now, merge the pull request and confirm merge.

Update file7.c #1

Open AditiPandey568 wants to merge 1 commit into main from newbranch

Conversation 0 Commits 1 Checks 0 Files changed 1 +2 -2

AditiPandey568 commented now

No description provided.

Update file7.c Verified 82b7f45

Add more commits by pushing to the newbranch branch on AditiPandey568/exp7.

- Require approval from specific reviewers before merging
Rulesets ensure specific people approve pull requests before they're merged. Add rule
- Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.
- This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Reviewers: No reviews, Still in progress? Convert to draft

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet


Milestone: No milestone

Development: Successfully merging this pull request may close these issues. None yet

Update file7.c #1

Merged AditiPandey568 merged 1 commit into `main` from `newbranch` [now](#)

Conversation 0 Commits 1 Checks 0 Files changed 1 +2 -2



AditiPandey568 commented 1 minute ago

No description provided.

Update file7.c

AditiPandey568 merged commit 27bbe38 into `main` now

Pull request successfully merged and closed

You're all set—the `newbranch` branch can be safely deleted.

Reviews: No reviews

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: No milestone

❖ You can see the changes in the main branch.

Files

main

Go to file

README.md

file7.c

exp7 / file7.c

AditiPandey568 Update file7.c 82b7f45 · 24 minutes ago History

Code Blame 23 lines (21 loc) · 558 Bytes Code 55% faster with GitHub Copilot

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21    return 0;
22 }
```

5. Result/Output/Writing Summary:

In this experiment, we have merge the contents of a branch to the main branch using pull request on both git bash and github.

Learning outcomes (What I have learnt):

1. Learnt how to create a branch.
2. Learnt how to clone a remote repo to our local system.
3. Learnt how to create a pull request and handle their merging.
4. Learnt to merge two branches.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			