



ExperimentNo.1.2

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Branch: MCA–CCD Section/Group: MCD-1/A

Semester: III Date of Performance: 30th Aug 23

Subject Name: DevOps Process Automation Lab Subject Code: 22CAP-745

1. Aim/Overview of the practical:

- a) Create a new file named UID_Name.txt in your local repo and add some content in the file and push it to the remote repository.
- b) Manage to create two new branches using Git. Two branches must be named as your UID and Name respectively.
- c) Now, after creating branches, UID_Name.txt file must be available in Branch UID. Make some changes in the file present in Branch UID.
- d) After this, come back to your Master branch and merge the file with Branch UID file. If you face any conflicts, remove it.
- e) Create a new file named as Name.txt in Branch Name. Now try to merge it with Branch UID file. Will it be merged or not? show after implementing it.

2. Code for practical: (a)

- **Step 1:** Make a new directory in your local system. After that move into newly created directory.
- Step 2: Make the directory a git directory by using git init.
- **Step 3:** After initializing directory as a git directory make a new file 22MCC20177_Gaurav.txt and add some content in it, by using echo command tocreate and add content into file.

echo "this text is added in main branch" >> 22MCC20177_Gaurav.txt.

- Step 4: Rename the default master branch into main branch using git branch -M main.
- **Step 5:** After that add and commit the file.
- **Step 6:** After commit link remote repository to local git repository.
- **Step 7:** After successful commit push all the changes into remote repository.





```
Sem-3 > 22MCC20177_DevOps_Prcticals
    gaurav D:
                                                                                                      ■ 6ms ■ 12:19:16
   git init
Initialized empty Git repository in D:/Gaurav/MCA/Sem-3/22MCC20177_DevOps_Prcticals/.git/
   gaurav D: ... MCA Sem-3 22MCC20177_DevOps_Prcticals P master X
                                                                                                    □ 198ms □ 12:29:36
   $ echo "this text is added in main branch" >> 22MCC20177_Gaurav.txt
      gaurav D: ... MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > 👂 master 🗙 >
                                                                                                     □ 15ms □ 12:29:47
   $ git branch -M main
      gaurav D: ... MCA
                                Sem-3 > 22MCC20177_DevOps_Prcticals > 1/2 main ×
                                                                                                     □ 38ms □ 12:29:54
   git remote add origin https://github.com/Gauravkumar1502/22MCC20177_DevOps_Prcticals.git $
      gaurav
                           MCA
                                 Sem-3
                                        > 22MCC20177_DevOps_Prcticals >> 👂 main 🗙
                                                                                                    □ 340ms  12:30:16
   git add .
    gaurav D: ... MCA Sem-3 22MCC201
git commit == "22MCC20177_Gaurav.txt added"
                                        > 22MCC20177_DevOps_Prcticals >> № main × > ☞ +1
                                                                                                     □ 36ms □ 12:30:37
[main (root-commit) 1d4d1f5] 22MCC20177_Gaurav.txt added
 1 file changed, 1 insertion(+)
 create mode 100644 22MCC20177_Gaurav.txt
                         > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > ♀ main ×
                                                                                                    ■ 43ms ■ 12:31:02
    gaurav D:
    git push
                origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 272 bytes | 272.00 KiB/s, done. Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Gauravkumar1502/22MCC20177_DevOps_Prcticals.git
 * [new branch]
                     main \rightarrow main
branch 'main' set up to track 'origin/main'.
```

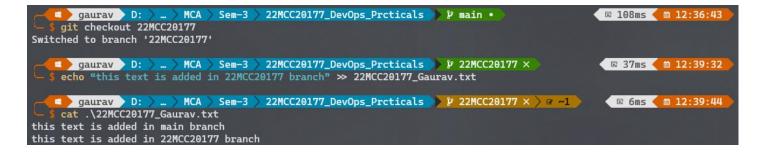
Code for practical: (b)

Step 1: Use git branch command to create 2 new branches. git branch 22MCC20177 git branch GauravKumar

Code for practical: (c)

- **Step 1:** To make changes in **22MCC20177_Gaurav.txt** in **22MCC20177**branch first we have to checkout to **22MCC20177** branch.
- Step 2: After checkout use echo command to append more content inside 22MCC20177_Gaurav.txt.

echo "this text is added in 22MCC20177 branch" >> 22MCC20177_Gaurav.txt





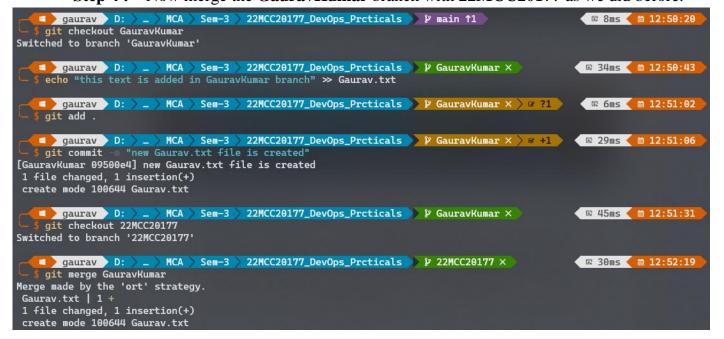


Code for practical: (d)

- **Step 1:** Return to main branch using **git checkout main** command.
- Step 2: To merge 22MCC20177 branch with main use git merge 22MCC20177 command.

Code for practical: (e)

- **Step 1:** To create a new file in **GauravKumar** branch first we have to checkout to the branch.
- **Step 2:** After **checkout** use echo command to create and add content into the file.
- **Step 3:** After that add and commit all changes in **GauravKumar** branch and checkout to main branch.
- Step 4: Now merge the GauravKumar branch with 22MCC20177 as we did before.



Yes, it merges successfully.