

ExperimentNo.1.2

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Branch: MCA–CCD

Semester: III

Subject Name: DevOps Process Automation Lab

UID: 22MCC20177

Section/Group: MCD-1/A

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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 to create 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.

```

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 6ms 12:19:16
$ git init
Initialized empty Git repository in D:/Gaurav/MCA/Sem-3/22MCC20177_DevOps_Prticals/.git/

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 198ms 12:29:36
$ echo "this text is added in main branch" >> 22MCC20177_Gaurav.txt

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 15ms 12:29:47
$ git branch -M main

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 38ms 12:29:54
$ git remote add origin https://github.com/Gauravkumar1502/22MCC20177_DevOps_Prticals.git

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 340ms 12:30:16
$ git add .

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 36ms 12:30:37
$ git commit -m "22MCC20177_Gaurav.txt added"
[main (root-commit) 1d4d1f5] 22MCC20177_Gaurav.txt added
1 file changed, 1 insertion(+)
create mode 100644 22MCC20177_Gaurav.txt

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 43ms 12:31:02
$ git push -u 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_Prticals.git
 * [new branch]      main -> 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
```

```

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 108ms 12:36:43
$ git checkout 22MCC20177
Switched to branch '22MCC20177'

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 37ms 12:39:32
$ echo "this text is added in 22MCC20177 branch" >> 22MCC20177_Gaurav.txt

gaurav D: > ... > MCA > Sem-3 > 22MCC20177_DevOps_Prticals 6ms 12:39:44
$ cat .\22MCC20177_Gaurav.txt
this text is added in main branch
this text is added in 22MCC20177 branch

```

```
gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > 22MCC20177 X > ~1 1ms 12:41:33
$ git add .

gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > 22MCC20177 X > ~1 28ms 12:41:36
$ git commit -m "22MCC20177_Gaurav.txt updated in UID branch"
[22MCC20177 2b2009b] 22MCC20177_Gaurav.txt updated in UID branch
1 file changed, 1 insertion(+)
```

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.

```
gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > main • 30ms 12:46:22
$ git merge 22MCC20177
Updating 1d4d1f5..2b2009b
Fast-forward
 22MCC20177_Gaurav.txt | 1 +
1 file changed, 1 insertion(+)
```

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.

```
gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > main ↑1 8ms 12:50:20
$ git checkout GauravKumar
Switched to branch 'GauravKumar'

gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > GauravKumar X 34ms 12:50:43
$ echo "this text is added in GauravKumar branch" >> Gaurav.txt

gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > GauravKumar X > ?1 6ms 12:51:02
$ git add .

gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > GauravKumar X > +1 29ms 12:51:06
$ git commit -m "new Gaurav.txt file is created"
[GauravKumar 09500e4] new Gaurav.txt file is created
1 file changed, 1 insertion(+)
create mode 100644 Gaurav.txt

gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > GauravKumar X 45ms 12:51:31
$ git checkout 22MCC20177
Switched to branch '22MCC20177'

gaurav D: > _ > MCA > Sem-3 > 22MCC20177_DevOps_Prcticals > 22MCC20177 X 30ms 12:52:19
$ git merge GauravKumar
Merge made by the 'ort' strategy.
Gaurav.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 Gaurav.txt
```

Yes, it merges successfully.