DevOps

CS457

Virtual Hackathon-1

Submitted to:

Dr.Uma S

Submitted by:

Group_15:

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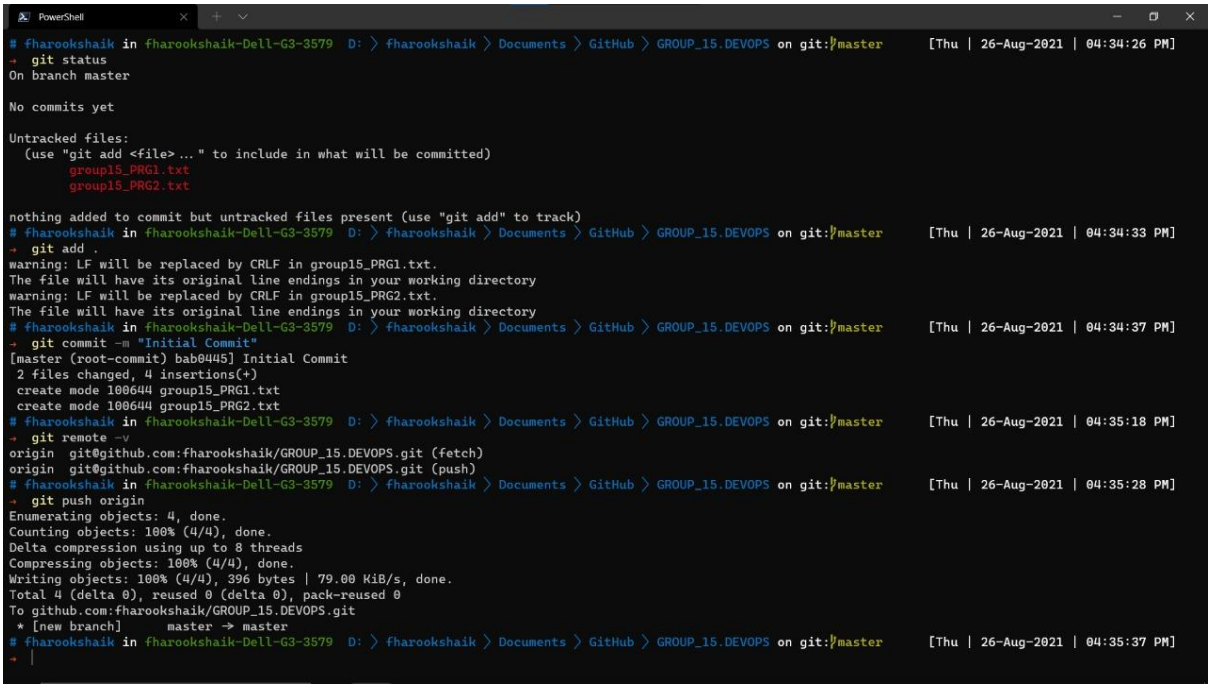
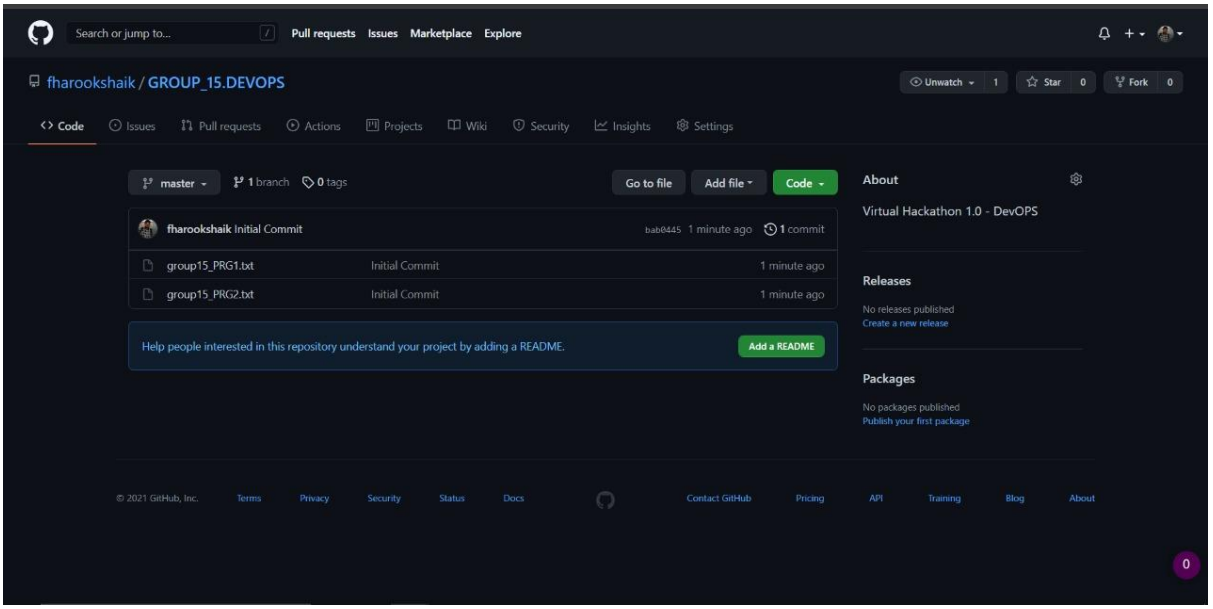
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY

Task1:----------

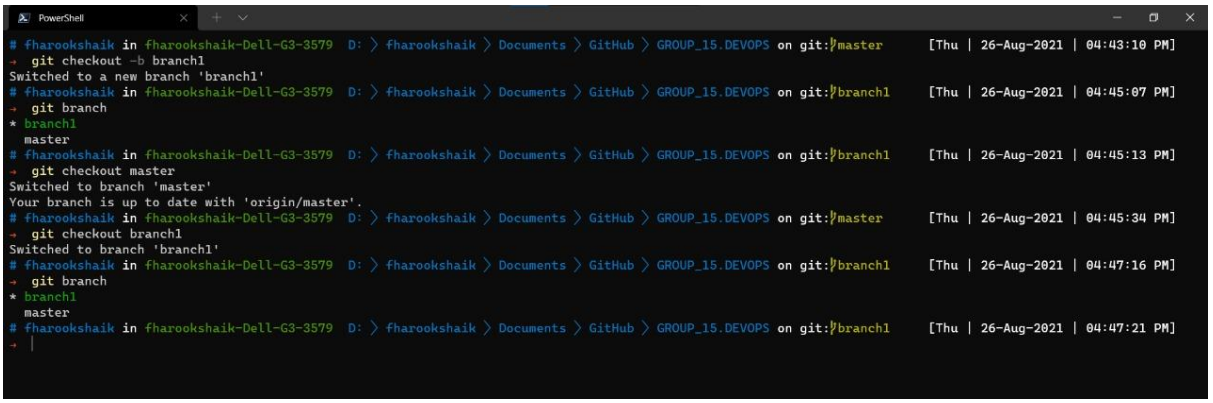
- Created a remote repository.
- Added files to remote repository.



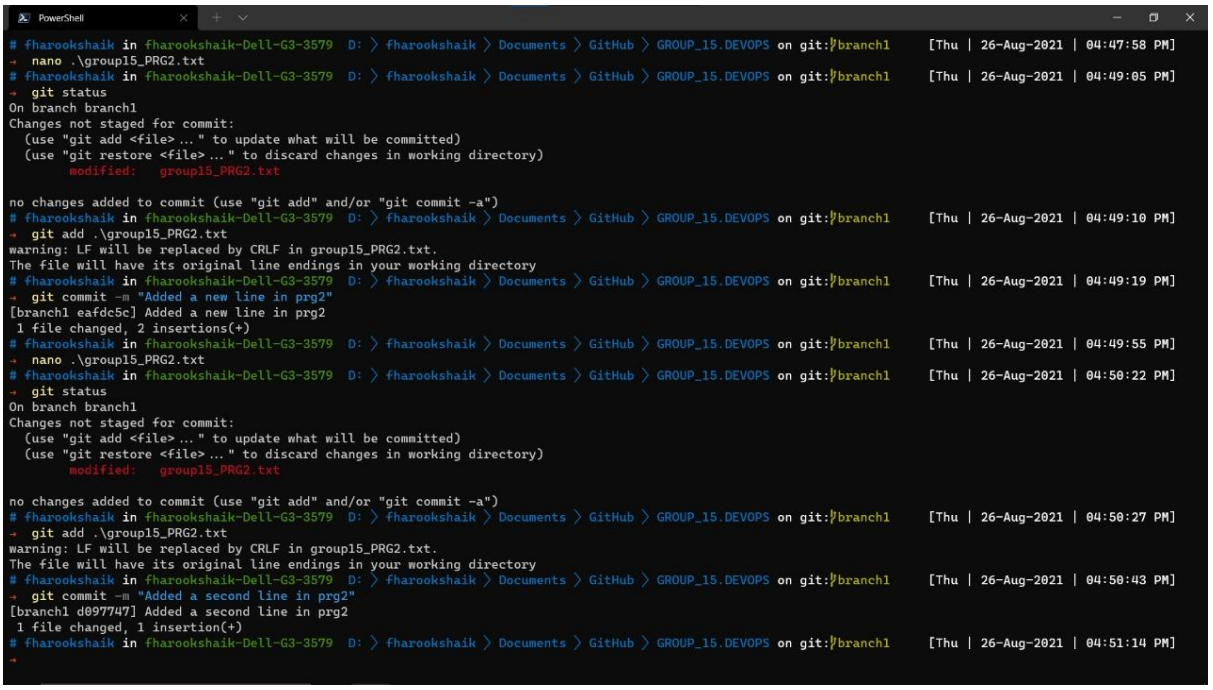


Task2:----------

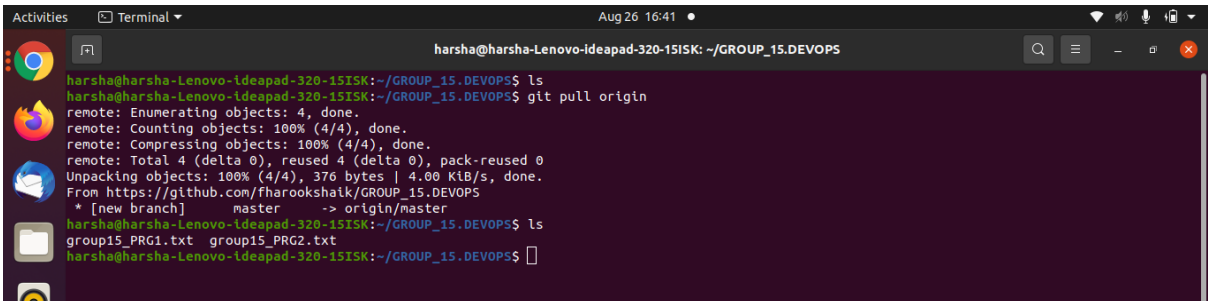
- Prgmr A : created branch1



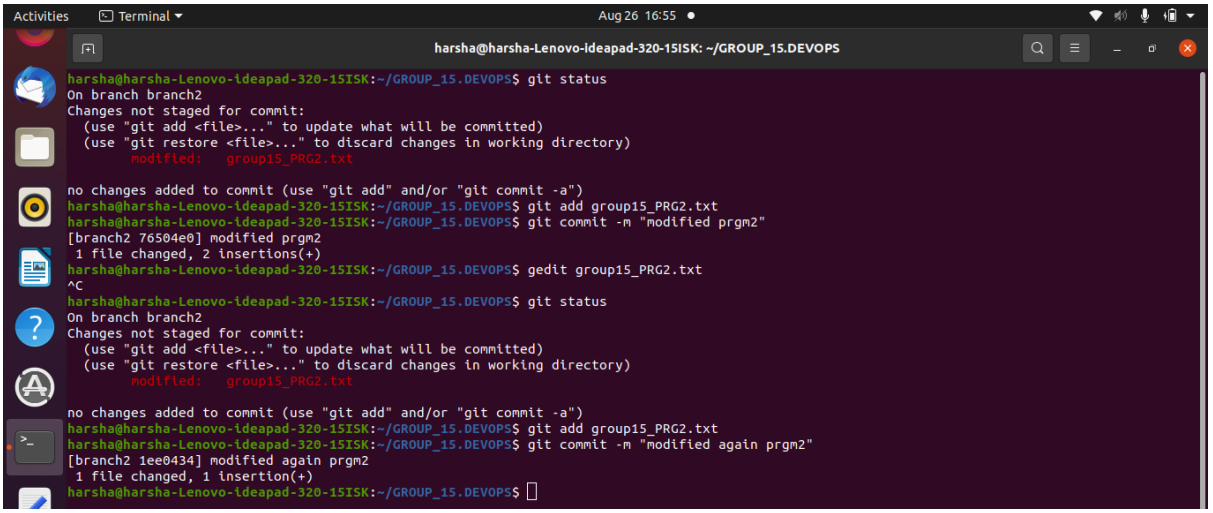
- PrgmrA: modified prg2 from brn1 two times



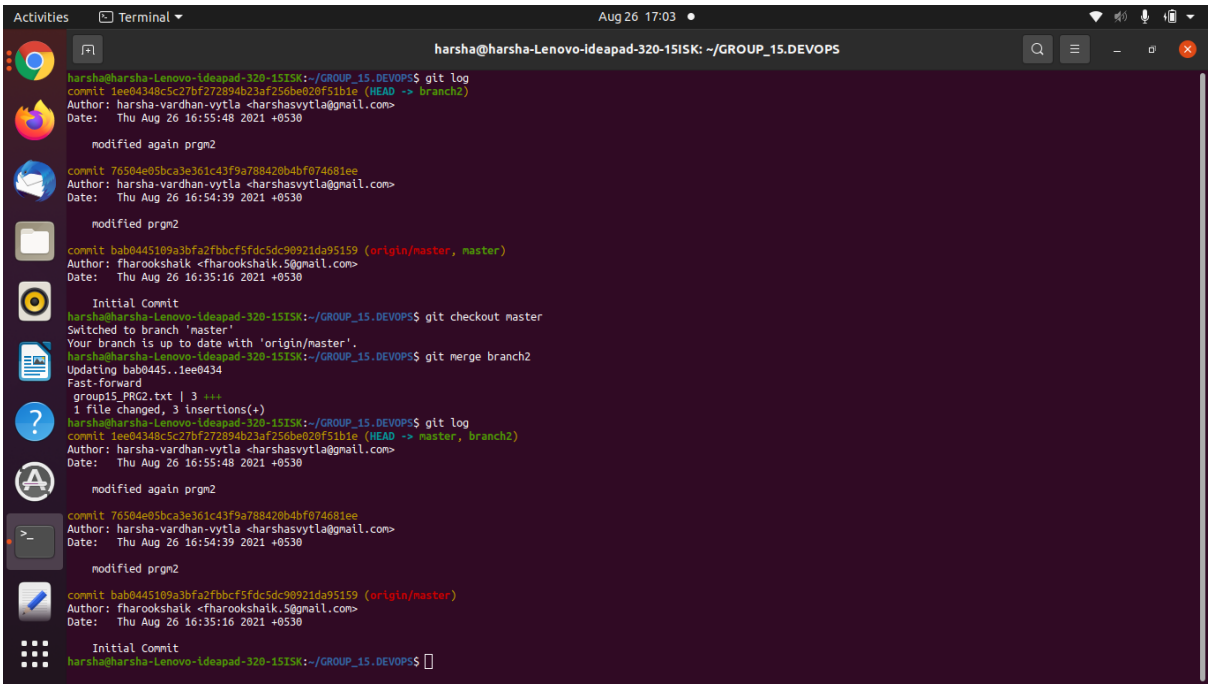
- Prgmr B pulled the repository from remote



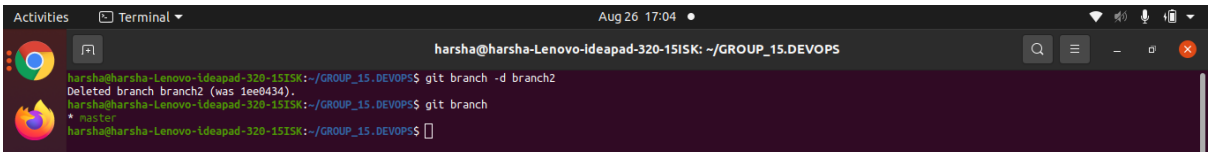
- PrgmrB modified prg2 from branch2 two times

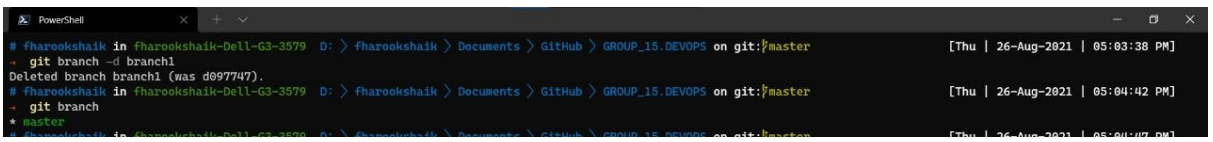


- Prgmr2 merged branch with master

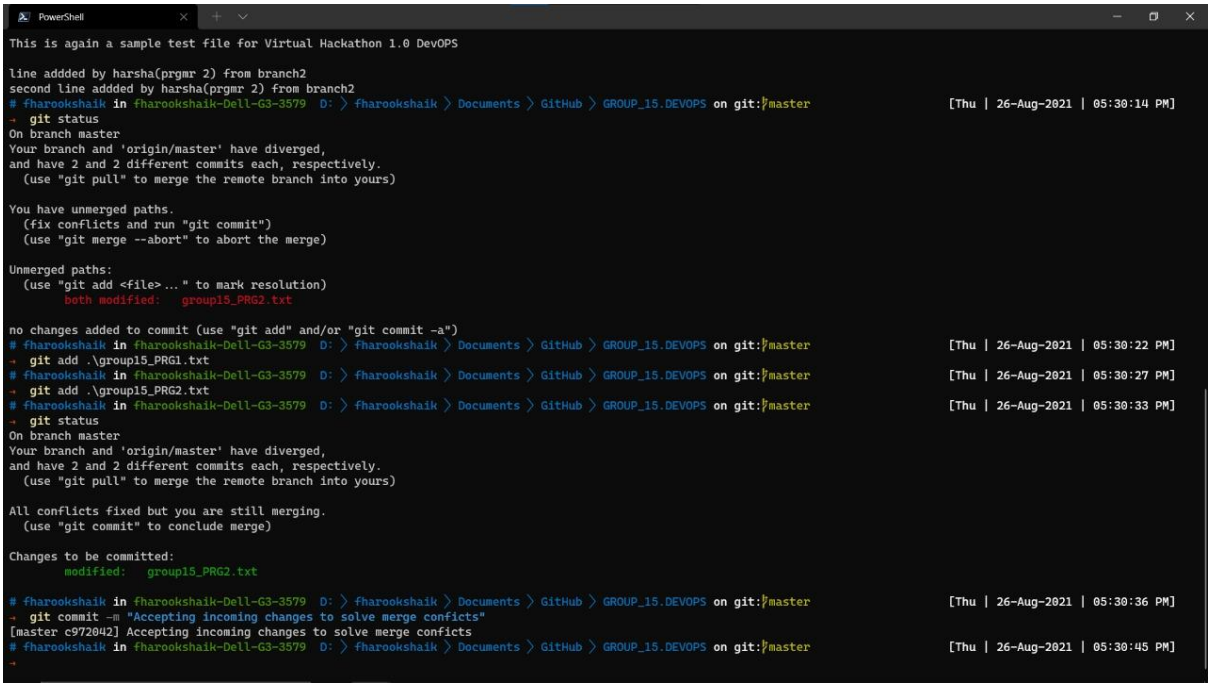


Prgmr A & B both deleted their branches

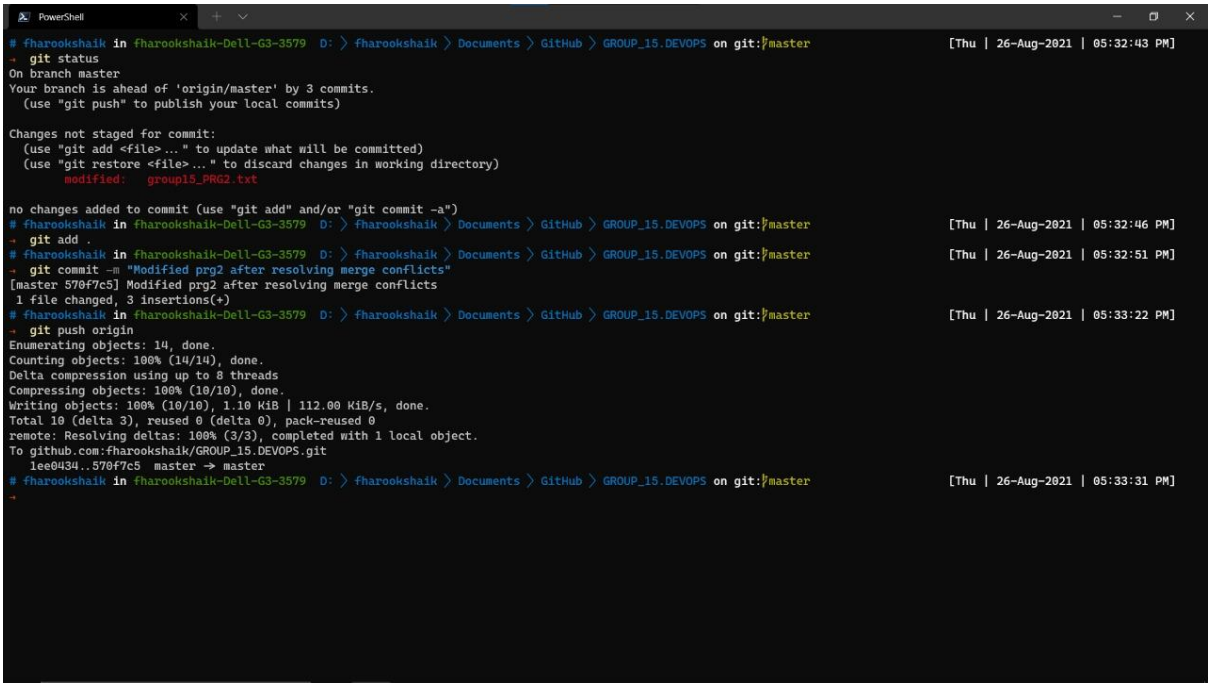




- **Prgmr A resolve merge conflicts**



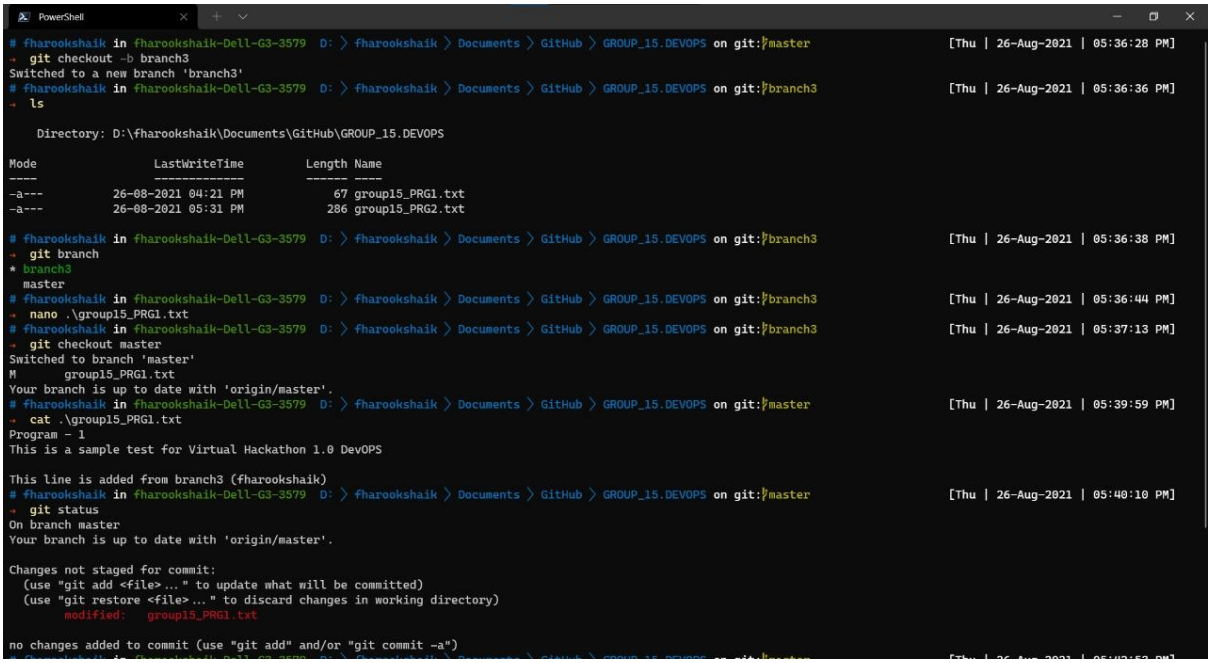
```
PowerShell
This is again a sample test file for Virtual Hackathon 1.0 DevOPS

line addded by harsha(prgmr 2) from branch2
second line addded by harsha(prgmr 2) from branch2
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:30:14 PM]
→  git status
On branch master
Your branch and 'origin/master' have diverged,
and have 2 and 2 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   group15_PRG2.txt

no changes added to commit (use "git add" and/or "git commit -a")
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:30:22 PM]
→  git add .\group15_PRG1.txt
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:30:27 PM]
→  git add .\group15_PRG2.txt
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:30:33 PM]
→  git status
On branch master
Your branch and 'origin/master' have diverged,
and have 2 and 2 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
        modified:   group15_PRG2.txt

# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:30:36 PM]
→  git commit -m "Accepting incoming changes to solve merge conficts"
[master c972042] Accepting incoming changes to solve merge conficts
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:30:45 PM]
→
```

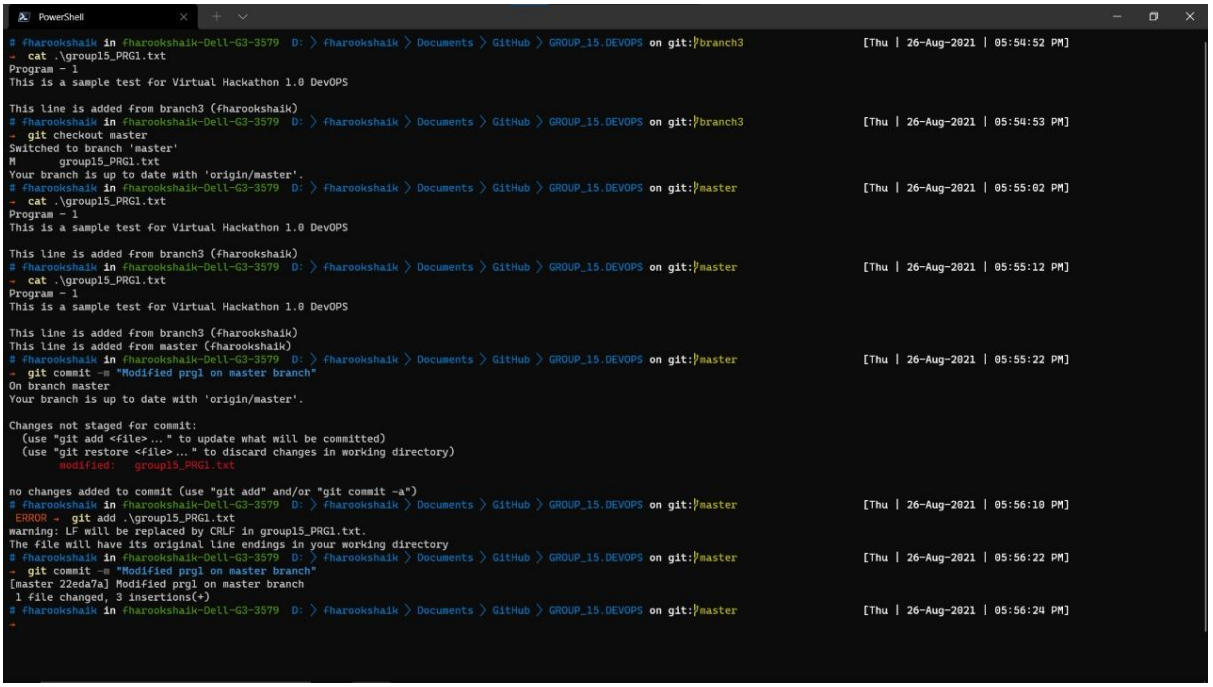


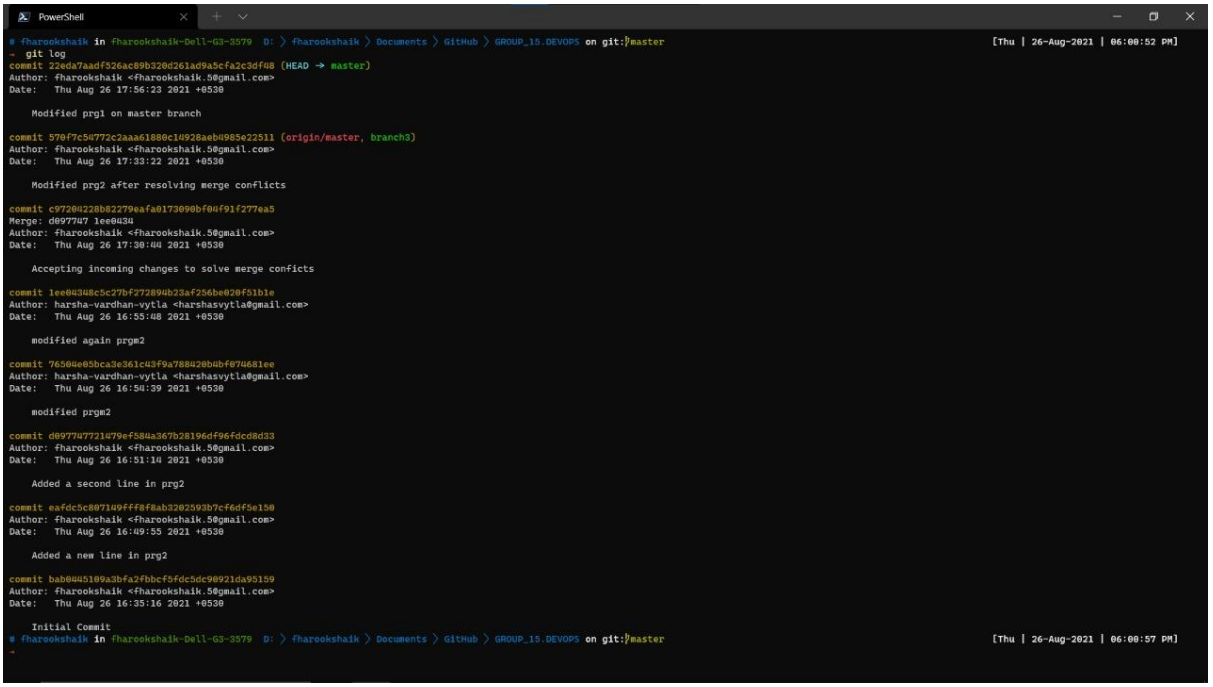
```
PowerShell
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:32:43 PM]
→  git status
On branch master
Your branch is ahead of 'origin/master' by 3 commits.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   group15_PRG2.txt

no changes added to commit (use "git add" and/or "git commit -a")
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:32:46 PM]
→  git add .
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:32:51 PM]
→  git commit -m "Modified prg2 after resolving merge conflicts"
[master 570f7c5] Modified prg2 after resolving merge conflicts
 1 file changed, 3 insertions(+)
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:33:22 PM]
→  git push origin
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (10/10), 1.10 KiB | 112.00 KiB/s, done.
Total 10 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:fharookshaik/GROUP_15.DEVOPS.git
   1ee0434..570f7c5  master -> master
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 05:33:31 PM]
→
```

Task3:----------

- Prgmr A resolving merge conflicts
- Since we're not committing any changes in the branch3 as per the docs, no merge conflicts will be occured.
- A merge conflict situation is handled in TASK 2

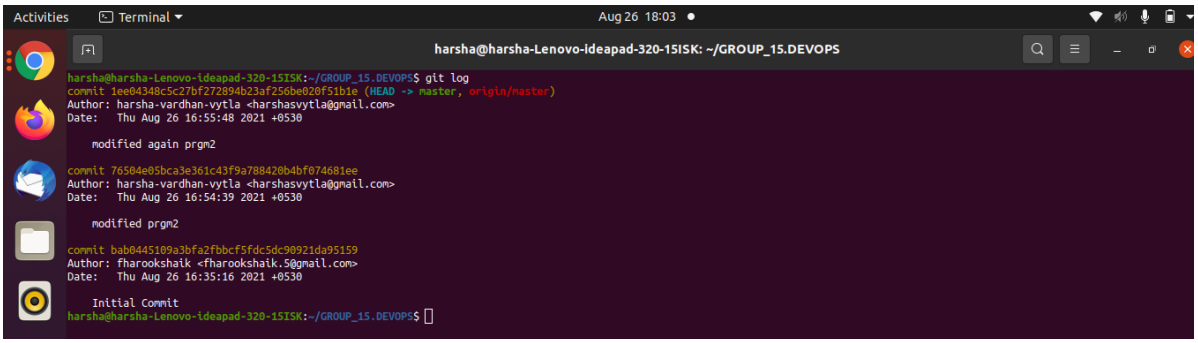




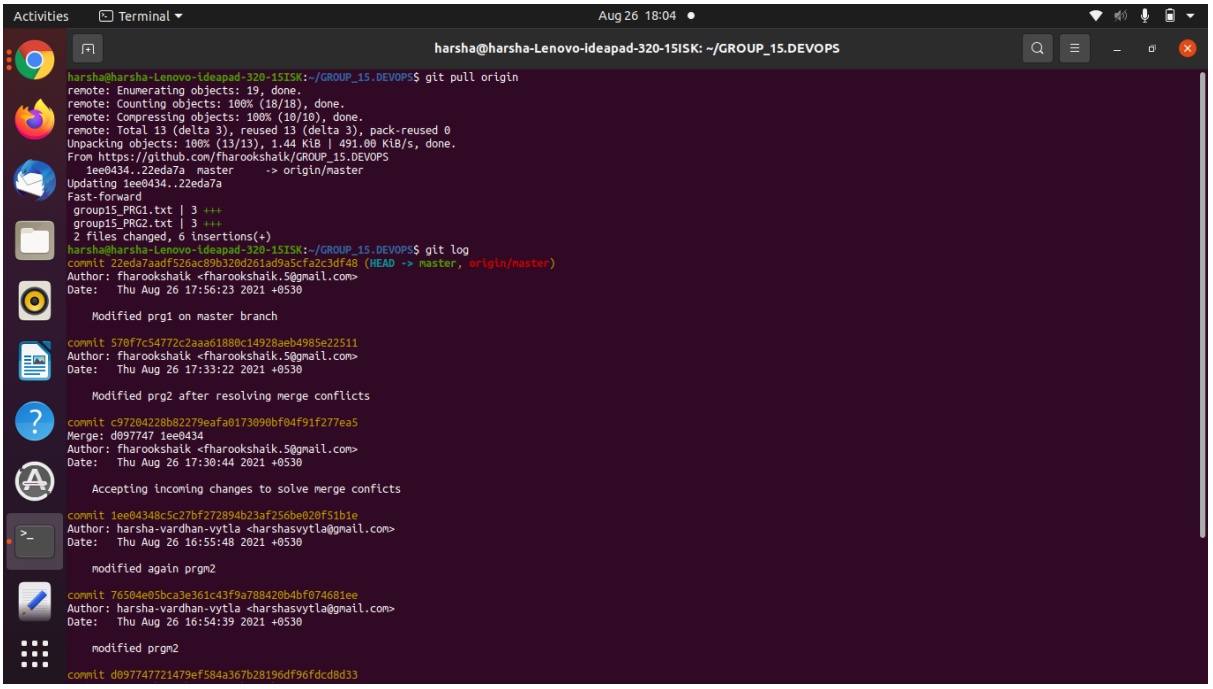

PowerShell
fharookshaik in fharookshaik-Dell-G3-3579 D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:?master [Thu | 26-Aug-2021 | 06:08:52 PM]
→ git log
commit 22eda7aadf526ac89b320d261ad9a5cfa2c3df48 (HEAD -> master)
Author: fharookshaik <fharookshaik.5@gmail.com>
Date: Thu Aug 26 17:56:23 2021 +0530
Modified prg1 on master branch
commit 570f7c54772c2aaa61880c14928aeb4985e22511 (origin/master, branch3)
Author: fharookshaik <fharookshaik.5@gmail.com>
Date: Thu Aug 26 17:33:22 2021 +0530
Modified prg2 after resolving merge conflicts
commit c9720228b82279eafa0173090bf04f91f277ea5
Merge: d097747 1ee0434
Author: fharookshaik <fharookshaik.5@gmail.com>
Date: Thu Aug 26 17:30:44 2021 +0530
Accepting incoming changes to solve merge conficts
commit 1ee0434 8c5c27bf27289 4b23af256be020f51b1e
Author: harsha-vardhan-vytla <harshasvytla@gmail.com>
Date: Thu Aug 26 16:55:48 2021 +0530
modified again prgm2
commit 76504e05bca3e361c43f9a788420b4bf074681ee
Author: harsha-vardhan-vytla <harshasvytla@gmail.com>
Date: Thu Aug 26 16:54:39 2021 +0530
modified prgm2
commit d09774 7721d79ef584a367b28196df96fdcd8d33
Author: fharookshaik <fharookshaik.5@gmail.com>
Date: Thu Aug 26 16:51:14 2021 +0530
Added a second line in prg2
commit eafdc5c807149fff8f8ab3202593b7cf6df5e150
Author: fharookshaik <fharookshaik.5@gmail.com>
Date: Thu Aug 26 16:49:55 2021 +0530
Added a new line in prg2
commit bab0445109a3bfa2fbbcf5fdc5dc90921da95159
Author: fharookshaik <fharookshaik.5@gmail.com>
Date: Thu Aug 26 16:35:16 2021 +0530
Initial Commit
fharookshaik in fharookshaik-Dell-G3-3579 D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:?master [Thu | 26-Aug-2021 | 06:08:57 PM]
→

Task4:----------

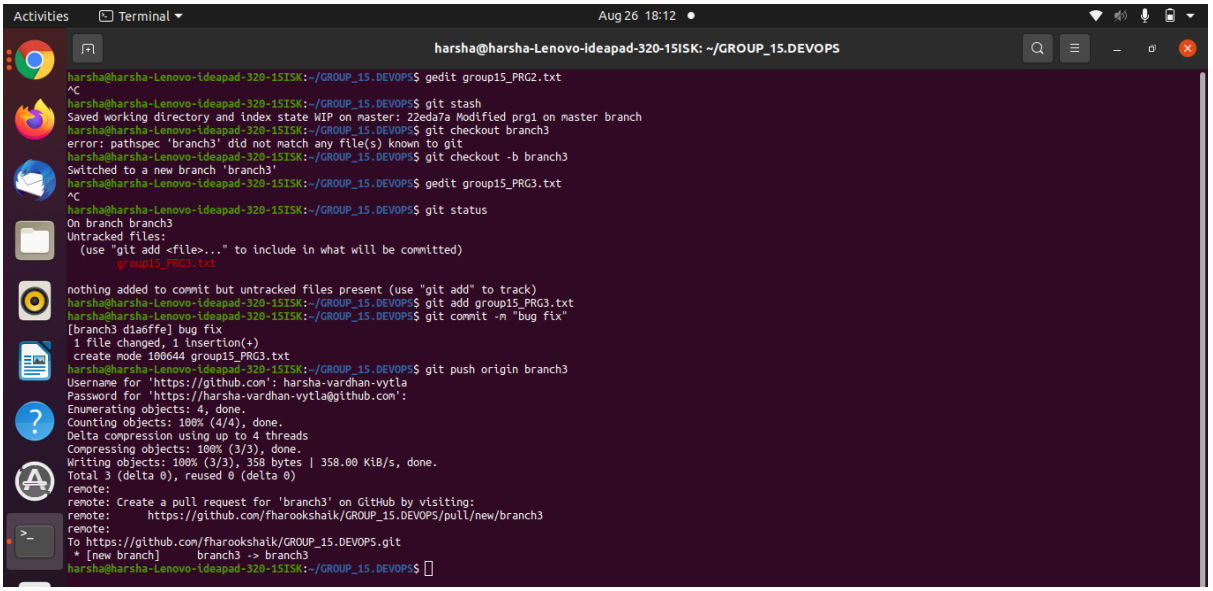
Prgmr2 before pulling origin



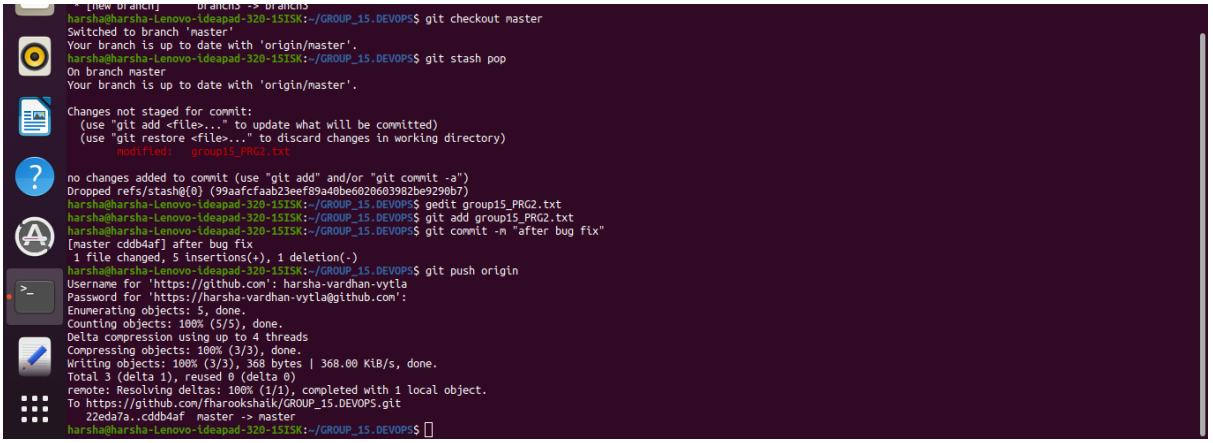
Prgmr2 after pulling origin



High priority bug fix

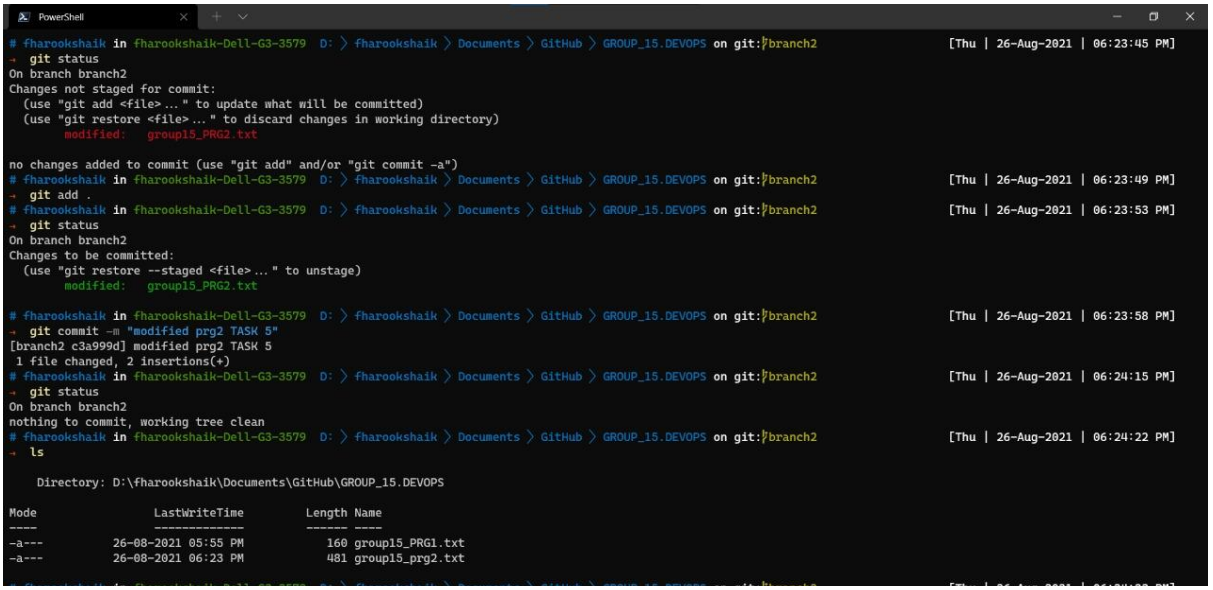


After bug fix



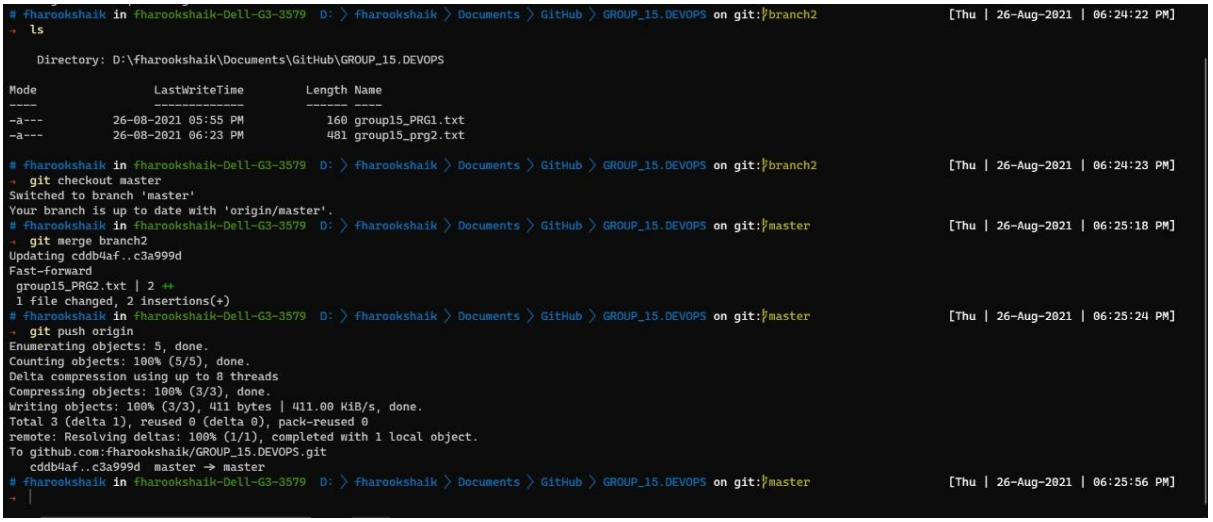
Task5:----------

before merge



```
PowerShell
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:23:45 PM]
→  git status
On branch branch2
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   group15_PRG2.txt

no changes added to commit (use "git add" and/or "git commit -a")
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:23:49 PM]
→  git add .
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:23:53 PM]
→  git status
On branch branch2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   group15_PRG2.txt

# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:23:58 PM]
→  git commit -m "modified prg2 TASK 5"
[branch2 c3a999d] modified prg2 TASK 5
 1 file changed, 2 insertions(+)
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:24:15 PM]
→  git status
On branch branch2
nothing to commit, working tree clean
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:24:22 PM]
→  ls

    Directory: D:\fharookshaik\Documents\GitHub\GROUP_15.DEVOPS

Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a---          26-08-2021 05:55 PM            160 group15_PRG1.txt
-a---          26-08-2021 06:23 PM            481 group15_prg2.txt
```

after merge & push origin



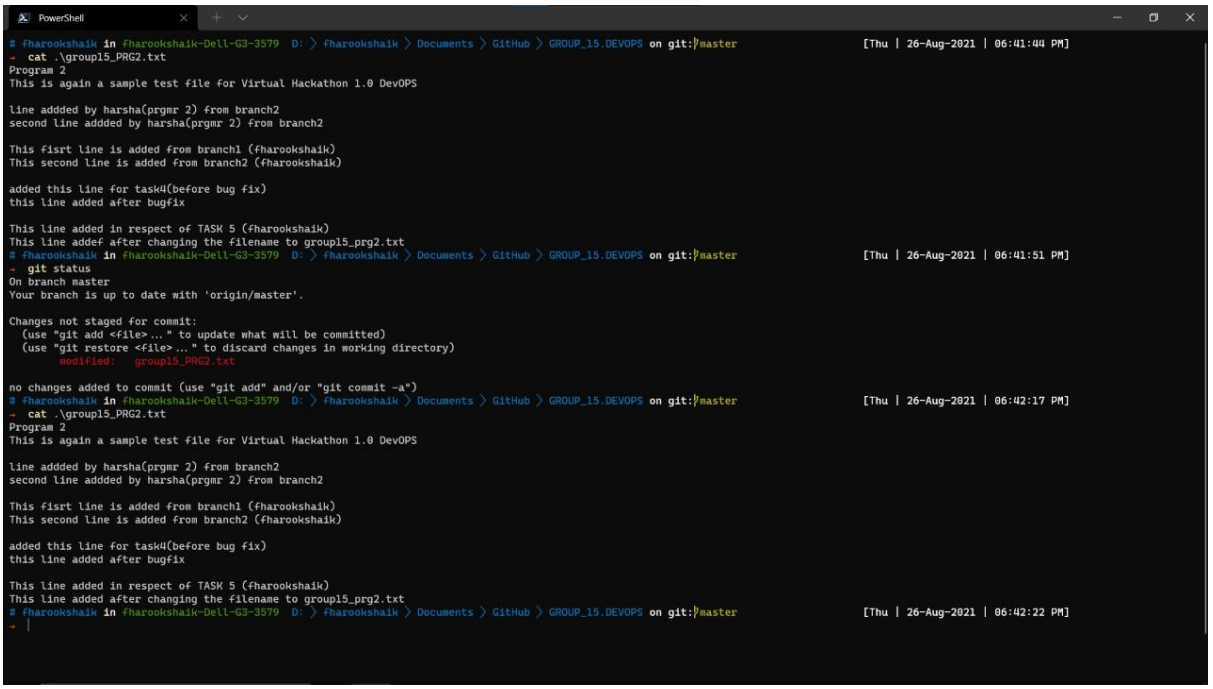
```
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:24:22 PM]
→  ls

    Directory: D:\fharookshaik\Documents\GitHub\GROUP_15.DEVOPS

Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a---          26-08-2021 05:55 PM            160 group15_PRG1.txt
-a---          26-08-2021 06:23 PM            481 group15_prg2.txt

# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:branch2                [Thu | 26-Aug-2021 | 06:24:23 PM]
→  git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:25:18 PM]
→  git merge branch2
Updating cddb4af..c3a999d
Fast-forward
 group15_PRG2.txt | 2 ++
 1 file changed, 2 insertions(+)
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:25:24 PM]
→  git push origin
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 411 bytes | 411.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:fharookshaik/GROUP_15.DEVOPS.git
   cddb4af..c3a999d  master -> master
# fharookshaik in fharookshaik-Dell-G3-3579  D: > fharookshaik > Documents > GitHub > GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:25:56 PM]
→
```

Visualizing

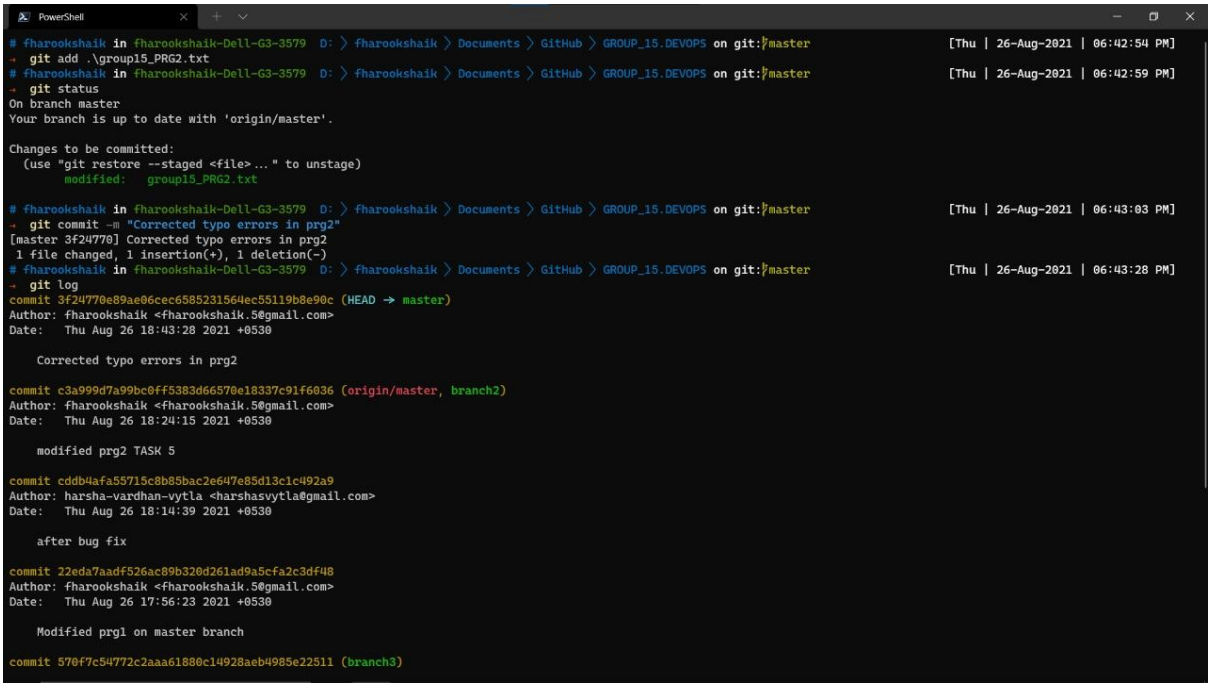
Graph	Description	Date	Author	Commit
	master origin branch2 **modified prg2 TASK 5**	26 Aug 2021 18:24	fharookshaik	c3a999d7
	after bug fix	26 Aug 2021 18:14	harsha-vardhan-vytla	cddb4afa
	origin/branch3 bug fix	26 Aug 2021 18:11	harsha-vardhan-vytla	d1a6ffe7
	Modified prg1 on master branch	26 Aug 2021 17:56	fharookshaik	22eda7aa
	branch3 Modified prg2 after resolving merge conflicts	26 Aug 2021 17:33	fharookshaik	570f7c54
	Accepting incoming changes to solve merge conficts	26 Aug 2021 17:30	fharookshaik	c9720422
	modified again prgm2	26 Aug 2021 16:55	harsha-vardhan-vytla	1ee04348
	modified prgm2	26 Aug 2021 16:54	harsha-vardhan-vytla	76504e05
	Added a second line in prg2	26 Aug 2021 16:51	fharookshaik	d0977477
	Added a new line in prg2	26 Aug 2021 16:49	fharookshaik	eafdc5c8
	Initial Commit	26 Aug 2021 16:35	fharookshaik	bab04451

Task6:----------

- Prgmr A committed the typographic errors in prg2.txt



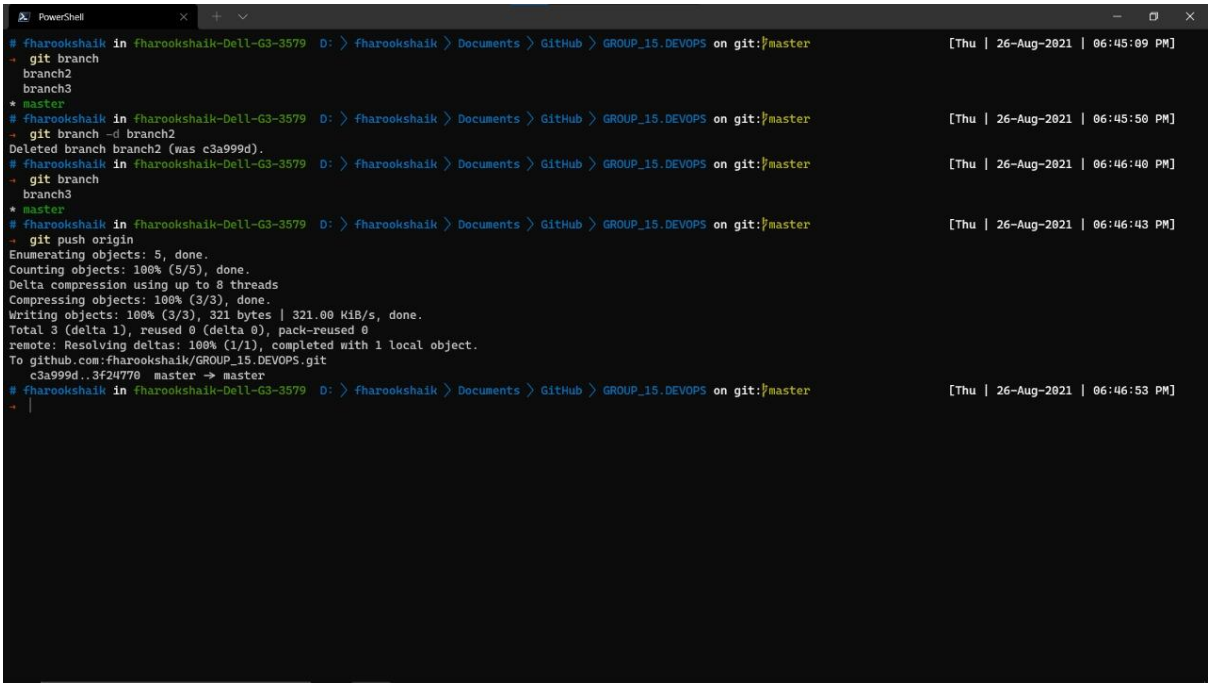
```
PowerShell
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:41:44 PM]
→  cat .\group15_PRG2.txt
Program 2
This is again a sample test file for Virtual Hackathon 1.0 DevOPS

line addded by harsha(prgmr 2) from branch2
second line addded by harsha(prgmr 2) from branch2

This fisrt line is added from branch1 (fharookshaik)
This second line is added from branch2 (fharookshaik)

added this line for task4(before bug fix)
this line added after bugfix

This line added in respect of TASK 5 (fharookshaik)
This line added after changing the filename to group15_prg2.txt
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:41:51 PM]
→  git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   group15_PRG2.txt

no changes added to commit (use "git add" and/or "git commit -a")
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:42:17 PM]
→  cat .\group15_PRG2.txt
Program 2
This is again a sample test file for Virtual Hackathon 1.0 DevOPS

line addded by harsha(prgmr 2) from branch2
second line addded by harsha(prgmr 2) from branch2

This fisrt line is added from branch1 (fharookshaik)
This second line is added from branch2 (fharookshaik)

added this line for task4(before bug fix)
this line added after bugfix

This line added in respect of TASK 5 (fharookshaik)
This line added after changing the filename to group15_prg2.txt
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:42:22 PM]
→
```



```
PowerShell
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:42:54 PM]
→  git add .\group15_PRG2.txt
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:42:59 PM]
→  git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   group15_PRG2.txt

# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:43:03 PM]
→  git commit -m "Corrected typo errors in prg2"
[master 3f24770] Corrected typo errors in prg2
 1 file changed, 1 insertion(+), 1 deletion(-)
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 06:43:28 PM]
→  git log
commit 3f24770e89ae06cec6585231564ec55119b8e90c (HEAD -> master)
Author: fharookshaik <fharookshaik.5@gmail.com>
Date:   Thu Aug 26 18:43:28 2021 +0530

    Corrected typo errors in prg2

commit c3a999d7a99bc0ff5383d66570e18337c91f6036 (origin/master, branch2)
Author: fharookshaik <fharookshaik.5@gmail.com>
Date:   Thu Aug 26 18:24:15 2021 +0530

    modified prg2 TASK 5

commit cddb4afa55715c8b85bac2e647e85d13c1c492a9
Author: harsha-vardhan-vytla <harshasvytla@gmail.com>
Date:   Thu Aug 26 18:14:39 2021 +0530

    after bug fix

commit 22eda7aadf526ac89b320d261ad9a5cfa2c3df48
Author: fharookshaik <fharookshaik.5@gmail.com>
Date:   Thu Aug 26 17:56:23 2021 +0530

    Modified prg1 on master branch

commit 570f7c54772c2aaa61880c14928aeb4985e22511 (branch3)
```

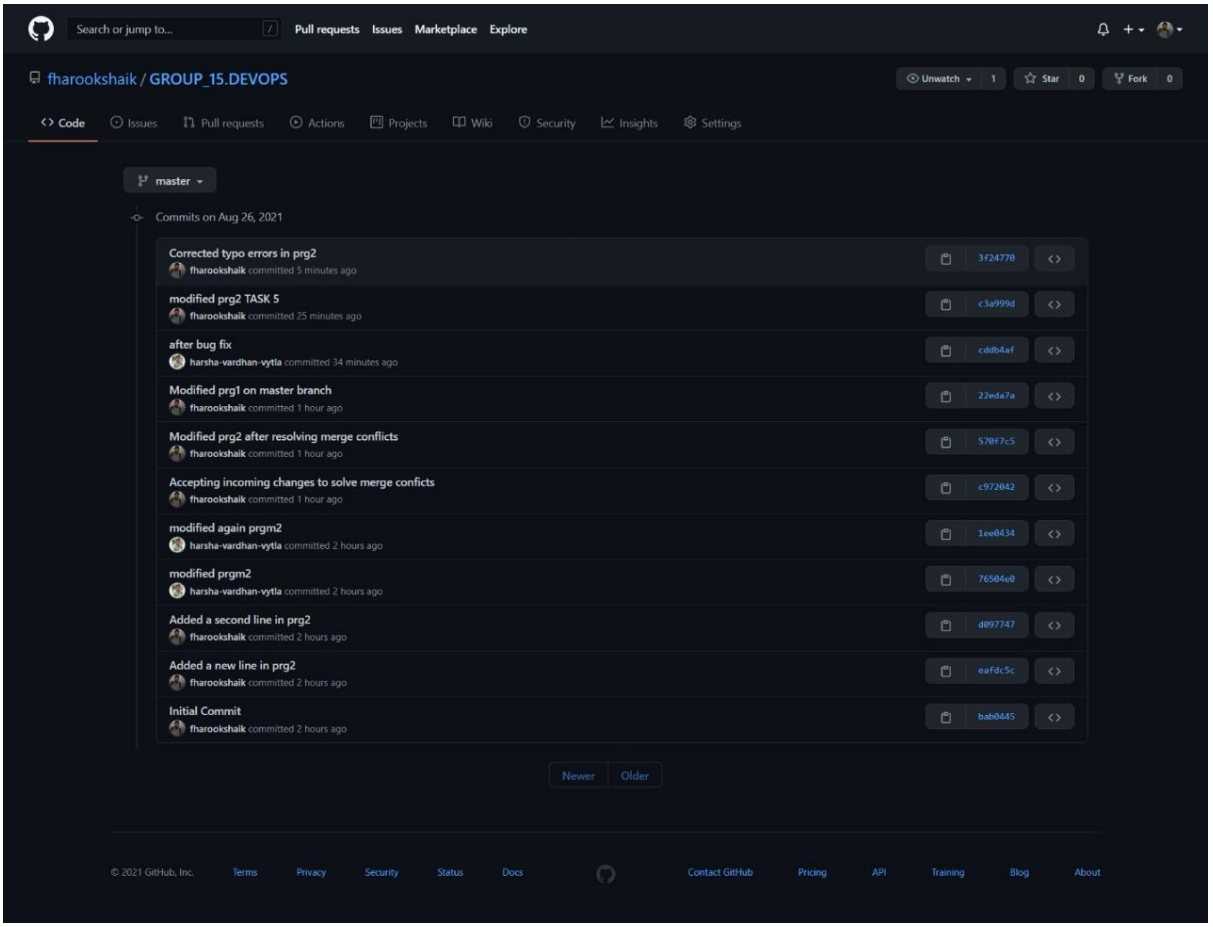
Task7:----------

- Prgmr A merging all the branches to master/main and deleting all the branched except branch3(hot bug fix)



Task8:----------

```
PowerShell
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 07:03:19 PM]
→  git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Readme.md

# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 07:03:23 PM]
→  git commit -m "Added readme"
[master 86ea1b4] Added readme
 1 file changed, 4 insertions(+)
 create mode 100644 Readme.md
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 07:03:34 PM]
→  git push origin
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 402 bytes | 402.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:fharookshaik/GROUP_15.DEVOPS.git
   3f24770..86ea1b4  master -> master
# fharookshaik in fharookshaik-Dell-G3-3579  D: ❯ fharookshaik ❯ Documents ❯ GitHub ❯ GROUP_15.DEVOPS on git:master                [Thu | 26-Aug-2021 | 07:03:42 PM]
→
```



~THE-END~