Name: Mohammad Hussam(2303.KHI.DEG.020)

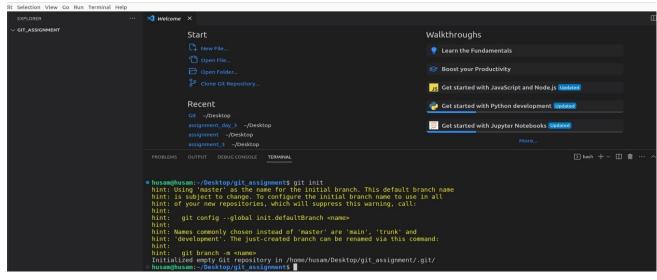
Partner: Mavia Alam Khan (2303.KHI.DEG.017)

ASSIGNMENT_Day_3

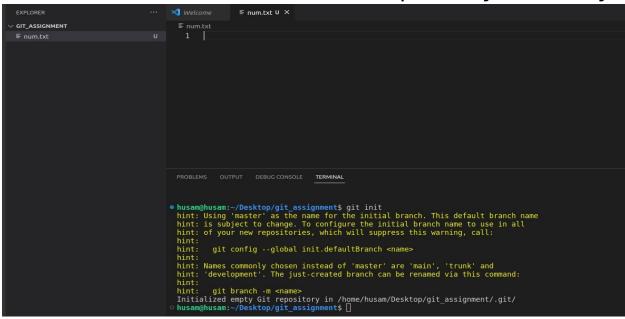
- 1.Create a new git repository in a local directory.
- 2.Create an empty file "numbers.txt" and commit it to the current ("main" or "master") branch.
- 3. Create two new branches: "odd" and "even".
- 4. Switch to the "odd" branch.
- 5.Edit the "numbers.txt" file by adding some odd numbers, then commit the change.
- 6. Switch to the "even" branch.
- 7.Edit the "numbers.txt" file by adding some even numbers, then commit the change.
- 8. Switch to the main branch.
- 9. Merge the "odd" branch to the current one.
- 10.Try to merge the "even" branch too it should cause a conflict.
- 11.Resolve the conflict by combining all the numbers and commit the merge.List the commits using git log -p command and save the output in a file.

SOLUTION:

1.Use git init command to create a new git repository:

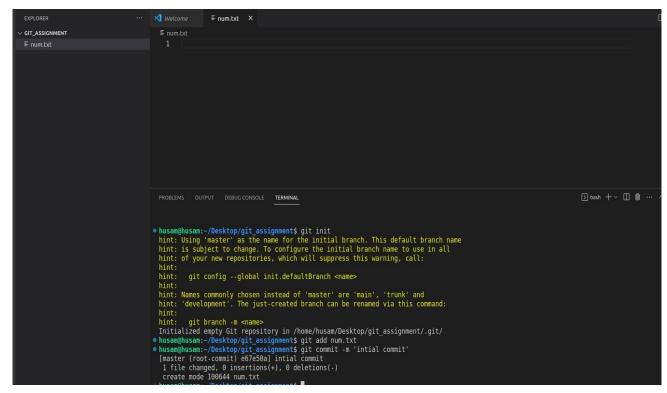


2.num.txt file is created in the repository directory.



3.Add the file to the repository and commit it to the current branch with the following commands:

git add num.txt git commit -m "Initial commit"

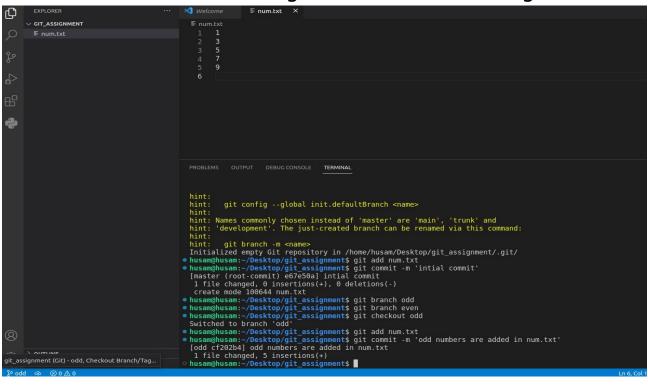


4. Create two new branches, "odd" and "even," using the following command:

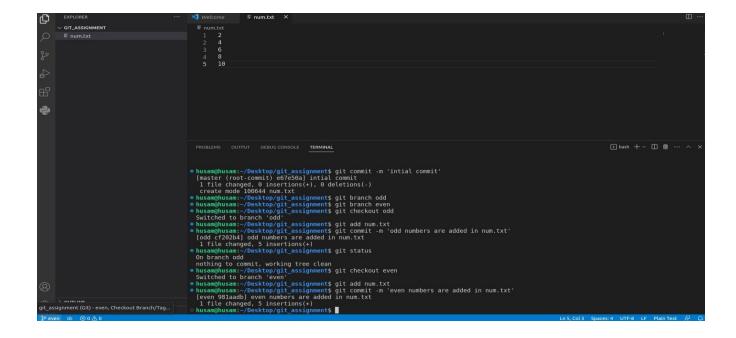
git branch odd git branch even

```
husam@husam:~/Desktop/git_assignment$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint: git branch -m <name>
Initialized empty Git repository in /home/husam/Desktop/git_assignment/.git/
husam@husam:~/Desktop/git_assignment$ git add num.txt
husam@husam:~/Desktop/git_assignment$ git commit -m 'intial commit'
[master (root-commit) e67e50a] intial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 num.txt
husam@husam:~/Desktop/git_assignment$ git branch odd
husam@husam:~/Desktop/git_assignment$ git branch even
husam@husam:~/Desktop/git_assignment$
```

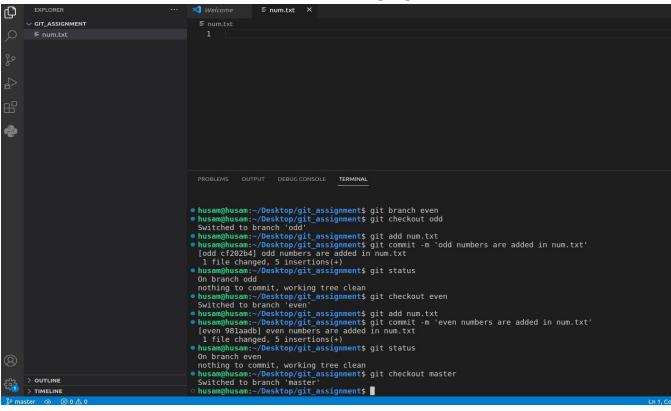
5.Switch to odd branch using 'git checkout odd' and then added odd numbers in num.txt file in odd branch, after that committed the change as show below in fig:



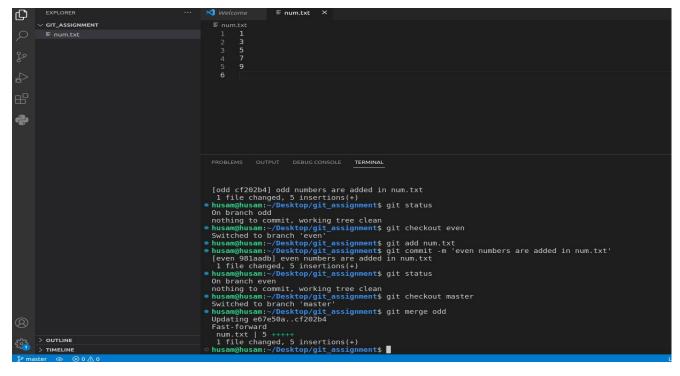
6. Switch to even branch using 'git checkout even' and then added even numbers in num.txt file in even branch, after that committed the change as show below in fig:



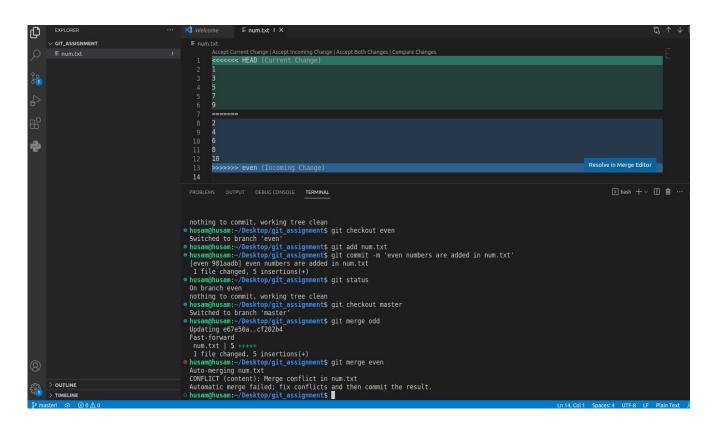
7. We switched to main branch using 'git checkout main'.

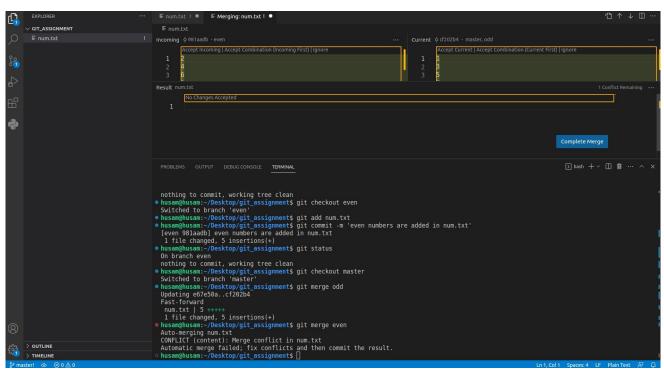


8. Merging odd branch with main branch, using 'git merge odd'

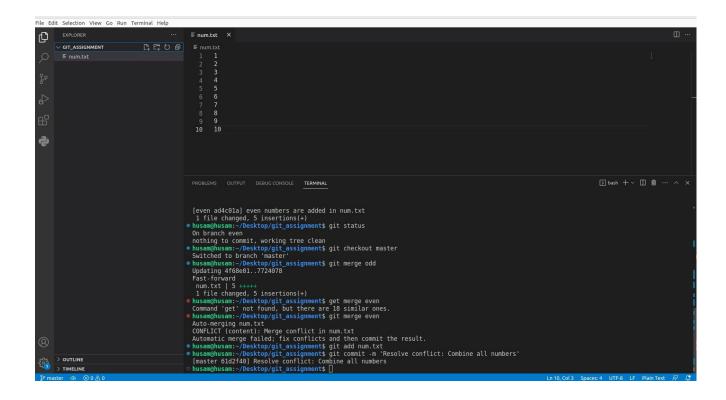


9. Merging even branch with main branch using 'git merge even 'so it will cause conflict.





10. Resolve the conflict by combining all the numbers in the "num.txt" file and commit the merge



11.And finally using git log -p > commits.txt command is used to list commits and create commits.txt file as output.

```
File Edit Selection View Go Run Terminal Help
  ф
                                                                                               1 commit 61d2f40249e1bd69250ee5e20e9510a5d2247a1b
                                                                                                       Merge: 7724078 ad4c01a

    num.txt

                                                                                                       Author: husam <mohammad.hussam@xloopdigital.com>
Date: Thu Apr 6 04:03:07 2023 +0500
                                                                                                                Resolve conflict: Combine all numbers
                                                                                                       commit ad4c0lac6e0a171022ba747660d15eb54ac05b2a
                                                                                                       Author: husam <mohammad.hussam@xloopdigital.com>
                                                                                                       Date: Thu Apr 6 03:57:37 2023 +0500
  ڪِ
                                                                                                                even numbers are added in num.txt
                                                                                                      diff --git a/num.txt b/num.txt
index e69de29..0e0333e 100644
                                                                                           PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                        1 file changed, 5 insertions(+)
• husam@husam:-/Desktop/git_assignment$ git status
On branch even
                                                                                            nothing to commit, working tree clean
                                                                                        • husam@husam:~/Desktop/git_assignment$ git checkout master
Switched to branch 'master'
                                                                                       Switched to branch 'master'

*husam@husam:-/Desktop/git_assignment$ git merge odd

Updating 4f68e01..7724078

Fast-forward

num.txt | 5 +++++

1 file changed, 5 insertions(+)

*husam@husam:-/Desktop/git_assignment$ get merge even

Command 'get' not found, but there are 18 similar ones.

*husam@husam:-/Desktop/git_assignment$ git merge even

Auto-merging num.txt

CONFLICT (content): Merge conflict in num.txt
                                                                                       Auto-merging num.txt
CONFLICT (content): Merge conflict in num.txt
Automatic merge failed; fix conflicts and then commit the result.

• husam@husam:-/Desktop/git_assignment$ git add num.txt
• husam@husam:-/Desktop/git_assignment$ git commit -m 'Resolve conflict: Combine all numbers'
[master 61d2f40] Resolve conflict: Combine all numbers
• husam@husam:-/Desktop/git_assignment$ git log -p > commits.txt
• husam@husam:-/Desktop/git_assignment$
            OUTLINE
            > TIMELINE
```

Commit.file:

```
commits.txt
~/Downloads/git_assignment (2) (1)/git_assignment
  Open V 🗐
 1 commit 61d2f40249e1bd69250ee5e20e9510a5d2247a1b
 2 Merge: 7724078 ad4c01a
 3 Author: husam <mohammad.hussam@xloopdigital.com>
 4 Date: Thu Apr 6 04:03:07 2023 +0500
       Resolve conflict: Combine all numbers
 8 commit ad4c01ac6e0a171022ba747660d15eb54ac05b2a
 9 Author: husam <mohammad.hussam@xloopdigital.com>
10 Date: Thu Apr 6 03:57:37 2023 +0500
12
       even numbers are added in num.txt
14 diff --git a/num.txt b/num.txt
15 index e69de29..0e0333e 100644
16 --- a/num.txt
17 +++ b/num.txt
18 @@ -0,0 +1,5 @@
19 +2
20 +4
21 +6
22 +8
24 \ No newline at end of file
26 commit 77240789c25a94fda549d65f1a0ad6ffcc2c577d
27 Author: husam <mohammad.hussam@xloopdigital.com>
28 Date: Thu Apr 6 03:54:28 2023 +0500
29
30
      odd numbers are added in num.txt
32 diff --git a/num.txt b/num.txt
33 index e69de29..7104f42 100644
34 --- a/num.txt
35 +++ b/num.txt
36 @@ -0,0 +1,5 @@
37 +1
38 +3
39 +5
40 +7
41 +9
42 \ No newline at end of file
44 commit 4f68e0178f4771d0e9c2cf4d5c0be67d180f71c5
45 Author: husam <mohammad.hussam@xloopdigital.com>
46 Date: Thu Apr 6 03:51:18 2023 +0500
49
50 diff --git a/num.txt b/num.txt
51 new file mode 100644
52 index 0000000..e69de29
```