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ASSIGNMNET 1.3

1. Create a new git repository in a local directory.

```
talhakhan@all-MS-7D35:~/Desktop$ mkdir git2.1
talhakhan@all-MS-7D35:~/Desktop$ cd git2.1
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git init
```

2. Create an empty file "numbers.txt" and commit it to the current ("main" or "master") branch.

```
nothing to commit (create/copy files and use "git add" to track)
talhakhan@all-MS-7D35:~/Desktop/git2.1$ touch numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git add numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git commit -m "1st commit"
[master (root-commit) 8aaf597] 1st commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 numbers.txt
```

- 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.

```
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git branch odd
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git checkout odd
Switched to branch 'odd'
talhakhan@all-MS-7D35:~/Desktop/git2.1$ echo "1" >> numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ echo "3" >> numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ echo "5" >> numbers.txt talhakhan@all-MS-7D35:~/Desktop/git2.1$ git add nmbers.txt
fatal: pathspec 'nmbers.txt' did not match any files
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git add numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git commit -m "add even commit"
[odd 21e5d64] add even commit
1 file changed, 3 insertions(+)
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git branch even
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git checkout even
Switched to branch 'even'
talhakhan@all-MS-7D35:~/Desktop/git2.1$ echo "2" >> numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ echo "4" >> numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ echo "6" >> numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git add numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git commit -m "add even committ"
[even 4802ac4] add even committ
1 file changed, 3 insertions(+)
```

8. Switch to the main branch.

```
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git checkout master
Switched to branch 'master'
```

- 9. Merge the "odd" branch to the current one.
- 10. Try to merge the "even" branch too it should cause a conflict.

```
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git merge odd
Updating 8aaf597..21e5d64
Fast-forward
  numbers.txt | 3 +++
  1 file changed, 3 insertions(+)
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git merge even
Updating 21e5d64..4802ac4
Fast-forward
  numbers.txt | 3 +++
  1 file changed, 3 insertions(+)
```

11. Resolve the conflict by combining all the numbers and commit the merge.

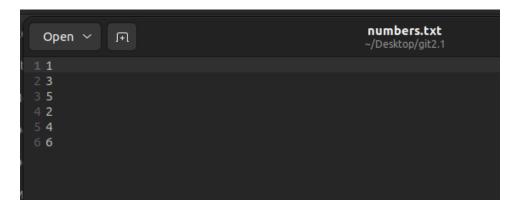
```
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git log -p > git_log.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git commit -m "resolved conflict by combing number"
On branch master
Untracked files:
    (use "git add <file>..." to include in what will be committed)
        git_log.txt

nothing added to commit but untracked files present (use "git add" to track)
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git add numbers.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git commit -m "resolved conflict by combing number"
On branch master
Untracked files:
    (use "git add <file>..." to include in what will be committed)
        git_log.txt

nothing added to commit but untracked files present (use "git add" to track)
talhakhan@all-MS-7D35:~/Desktop/git2.1$ git commit -m "resolved conflict by combing number"
[master d656b3f] resolved conflict by combing number
1 file changed, 42 insertions(+)
create mode 100644 git_log.txt
talhakhan@all-MS-7D35:~/Desktop/git2.1$ [
```

List the commits using git log -p command and save the output in a file.

Output:



```
numbers.txt

1 commit 4802ac495d1722b23cecc463b6f1a3be3f48efad
2 Author: Talha-Khan-2303-009-KHI-DEG <talha.khan@xloopdigital.com>
3 Date: Thu Apr 6 09:30:06 2023 +0500

4
5 add even committ
6
7 diff --git a/numbers.txt b/numbers.txt
8 index 403ec31.e08cccc 100644
9 --- a/numbers.txt
10 0+-1,3 +1,6 00
11 3 3
14 5
15 +2
16 +4
17 +6
18
19 commit 21e5d6405722232e78ced98f870918b160a8d4bb
20 Author: Talha-Khan-2303-009-KHI-DEG <talha.khan@xloopdigital.com>
21 Date: Thu Apr 6 09:27:54 2023 +0500
22
23 add even commit
24
24
25 diff --git a/numbers.txt b/numbers.txt
26 index e69de29..403ec31 100644
27 --- a/numbers.txt
29 00 -0,0 +1,3 00
31
31 +3
32 +5
33
34 commit 8aaf5977a626ad2bb0f2cb374ee61502da277ca4
35 Author: Talha-Khan-2303-009-KHI-DEG <talha.khan@xloopdigital.com>
36 Date: Thu Apr 6 09:26:33 2023 +0500
37
38 1st commit
39
40 diff --git a/numbers.txt b/numbers.txt
41 new file mode 100644
42 index 0000000..e69de29
```