Version Control System setup and usage using GIT

Quarantine Assignments

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1 Aim

- 1. Creating a repository
- 2. Checking out a repository
- 3. Adding content to the repository
- 4. Committing the data to a repository
- 5. Updating the local copy
- 6. Comparing different revisions
- 7. Revert
- 8. Conflicts and a conflict Resolution

2 Source Code

Initializing a repository:

```
git init
```

Adding and Commiting:

```
git add .
git commit -m <commit message>
```

Comparing Different Revisions:

```
git diff HEAD <file name>
```

Reverting Changes:

```
git revert HEAD
```

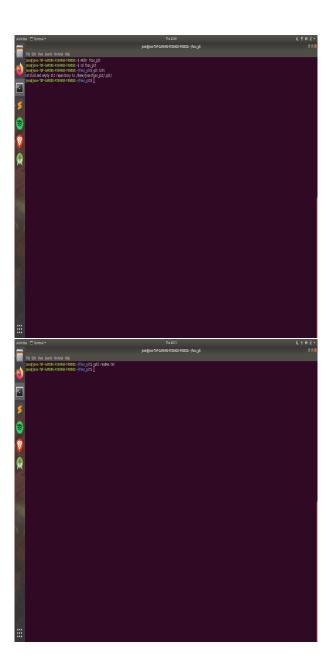
Branching:

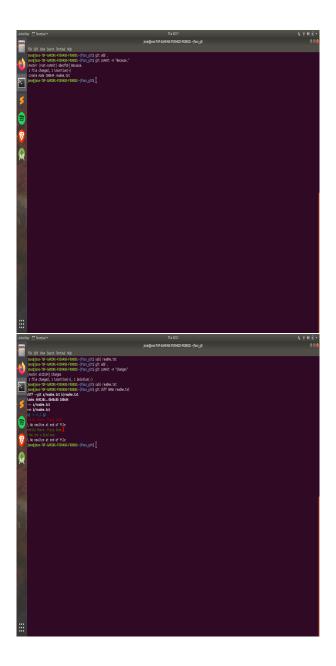
```
git branch <br/> <br/>branch name>
```

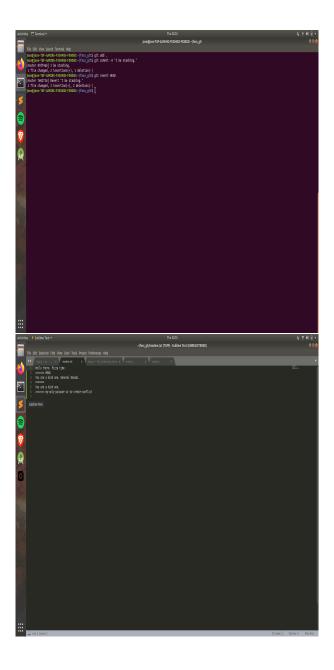
Merging:

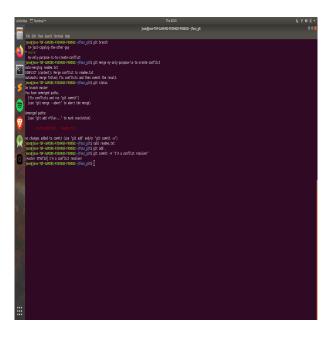
```
git merge <branch name>
```

3 Samples









4 Result

Repositories were initialized, branches were made, and conflicts were resolved. All this, and more, on Ubuntu $18.04.3\,\mathrm{LTS}$.