**INTRODUCTION TO VERSION CONTROL**

**ASSIGNMENT**

**NAME-LALIT SHARMA**

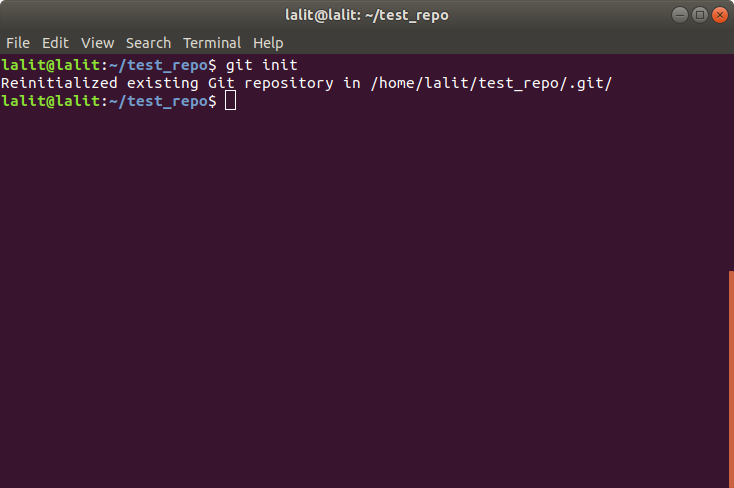
**GROUP 5**

1. **Git Setup** [**https://confluence.atlassian.com/bitbucket/set-up-git-744723531.html**](https://confluence.atlassian.com/bitbucket/set-up-git-744723531.html)

**Git is configured is done properly as well as ssh keys are also set.**

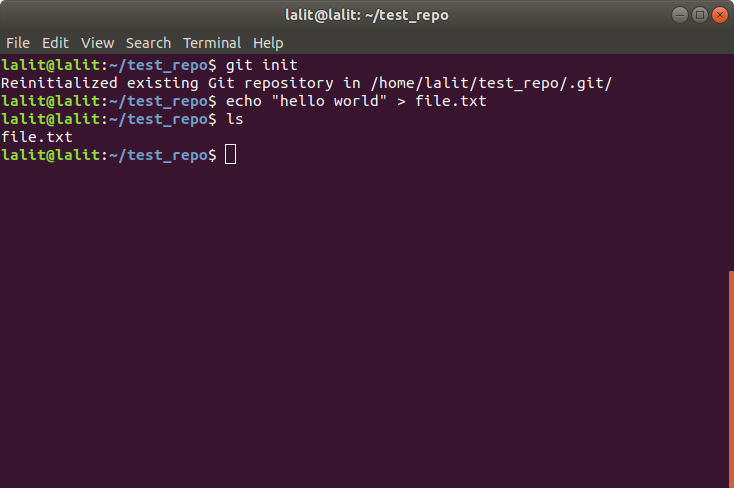
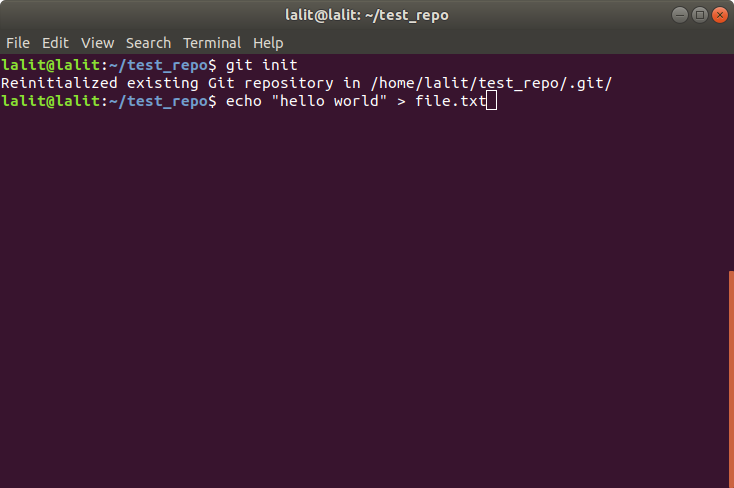
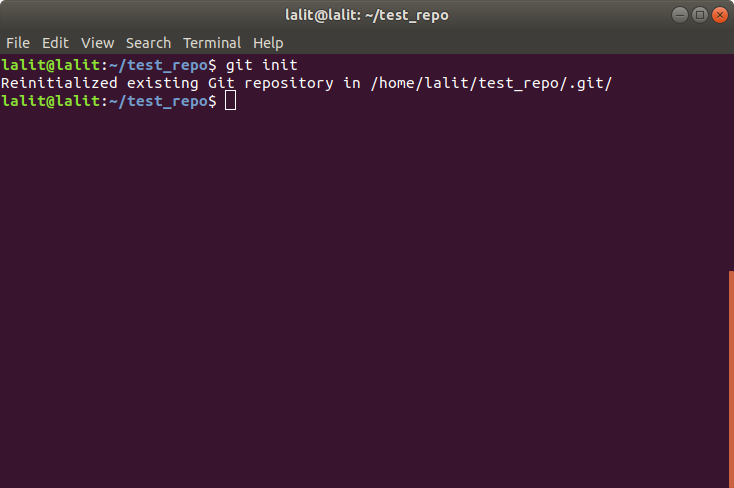
1. **Initialize a Git Repository**

**To initialize a git repository.we can use git init command**

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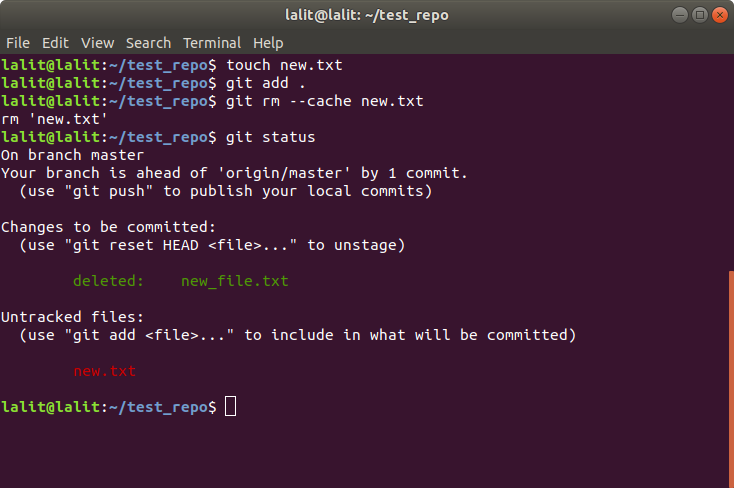
1. **Add files to the repository**

**here i used echo command to create a file with “hello world” content in it and used ls to verify that file exists in it**

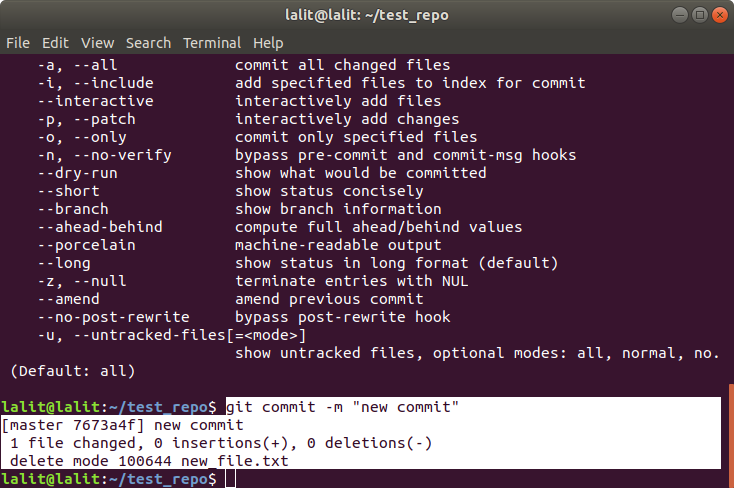
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1. **Unstage 1 file**

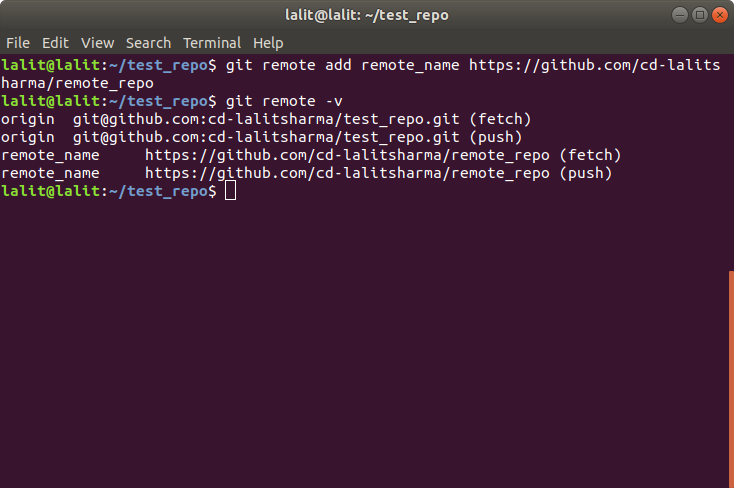
**git rm –-cache new.txt**

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1. **Commit the file**

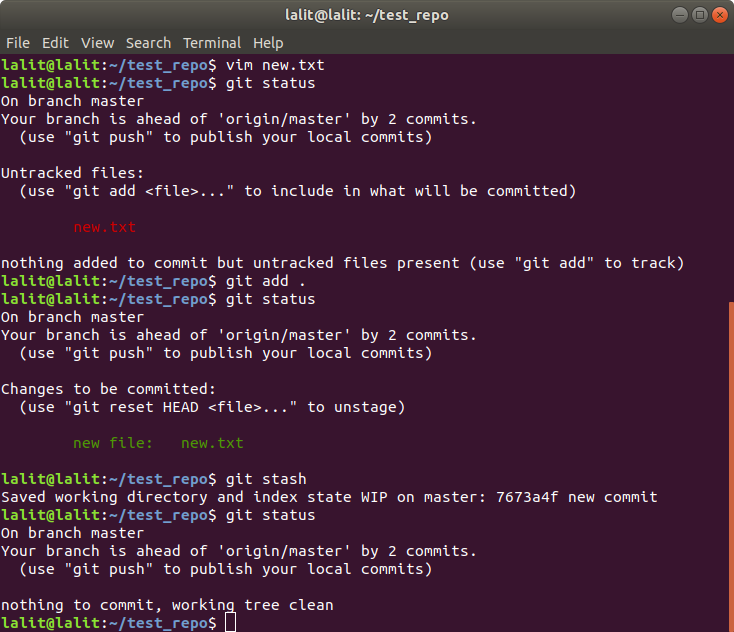
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1. **Add a remote**

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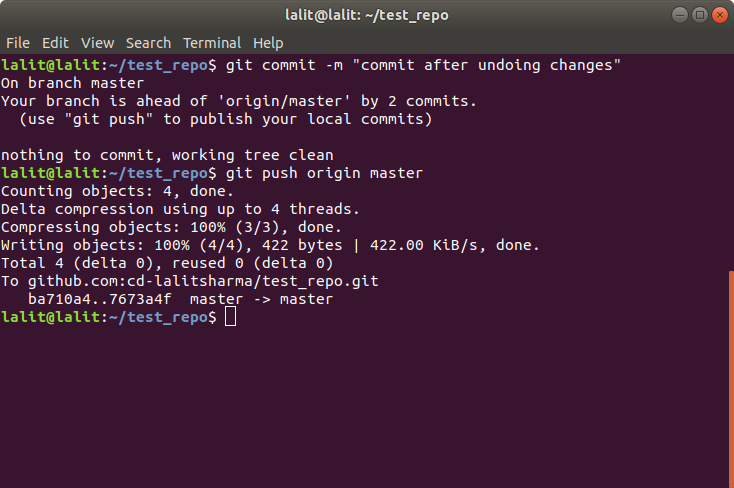
1. **Undo changes to a particular file**

**we can use git stash to undo file changes**

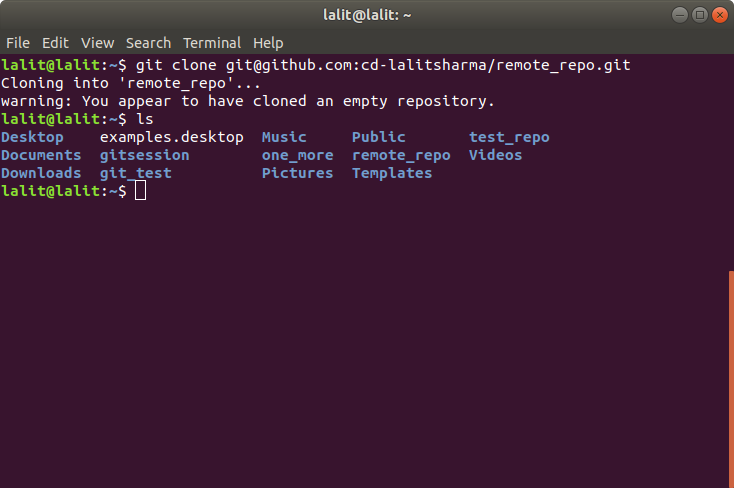
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1. **Push changes to Github**

**git push origin <branch name | e.g. master>**

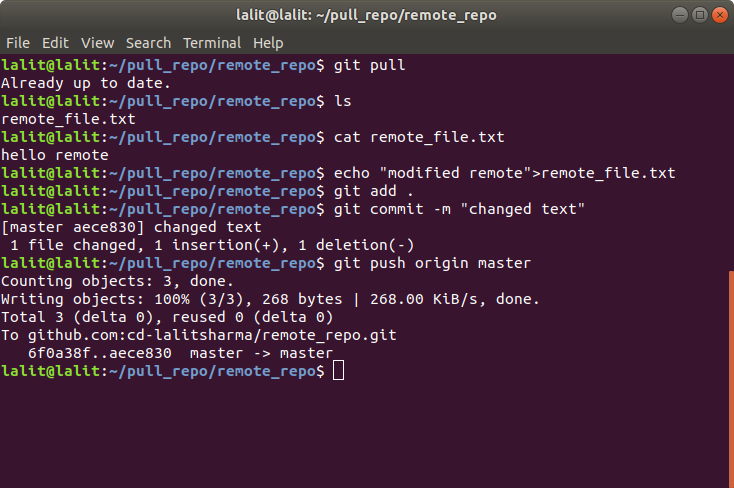
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1. **Clone the repository**

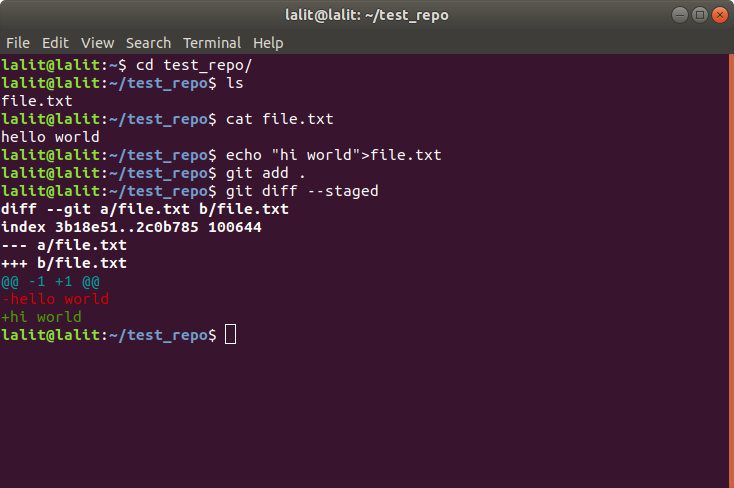
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1. **Add changes to one of the copies and pull the changes in the other.**

**Here i have two branches, i update a file in one branch and pulled the content of that in another using git pull.**

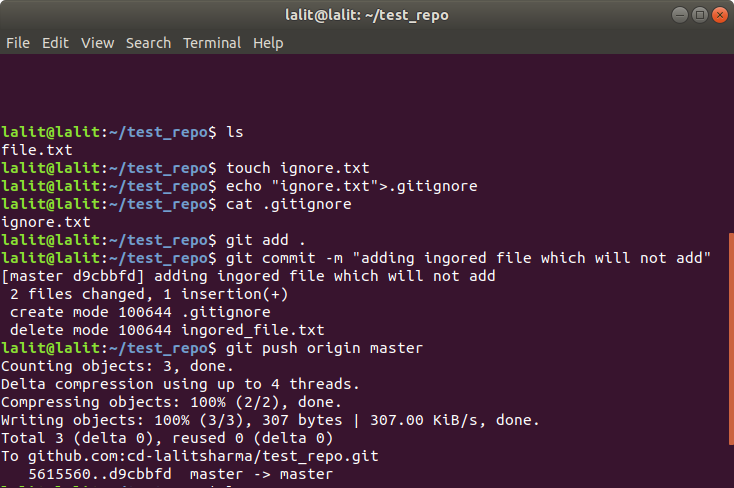
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1. **Check differences between a file and its staged version**

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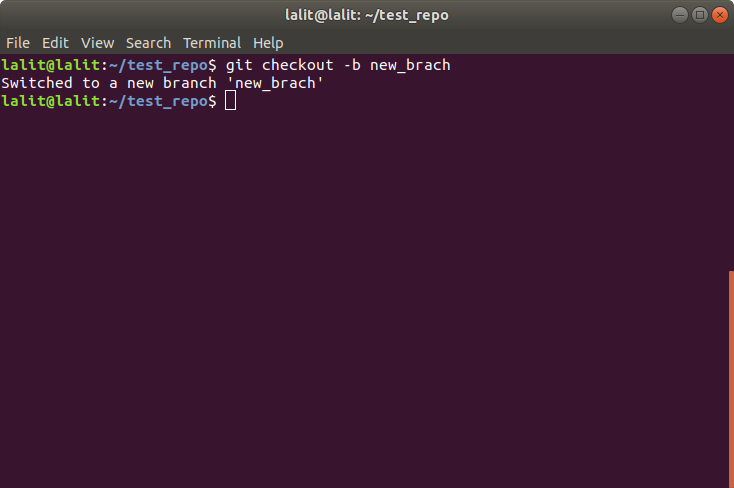
1. **Ignore a few files to be checked in**

**we use .gitignore to ignore files and folder from being pushed to remote repository**

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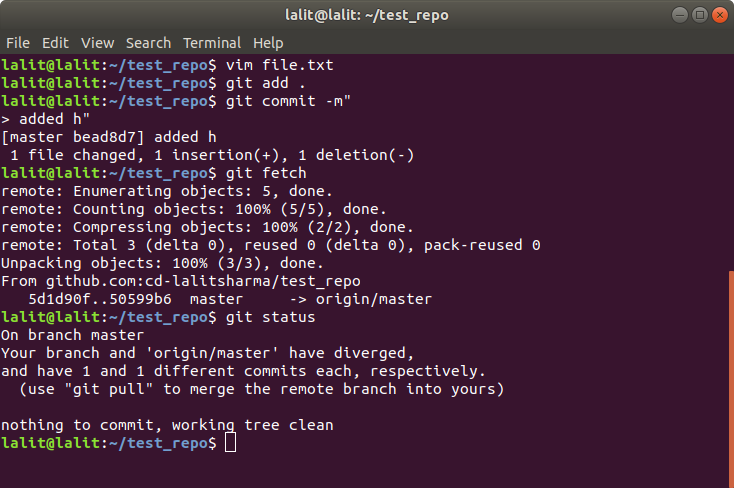
1. **Create a new branch.**

**Branch can be created using , git branch <branch name> or git checkout -b <new branch name>**

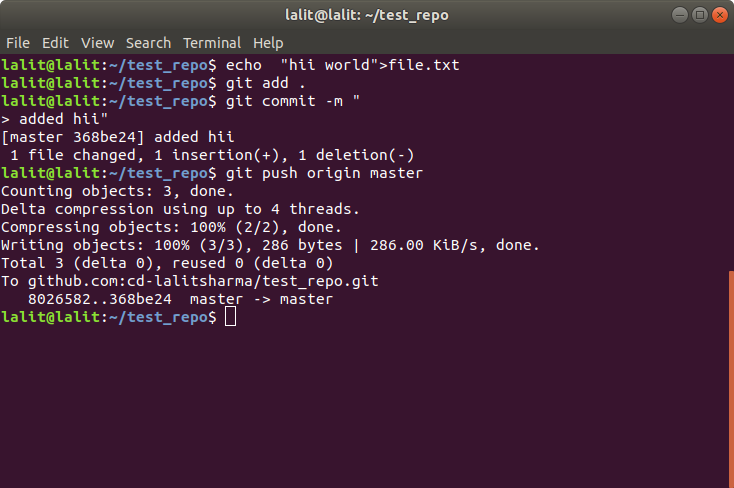
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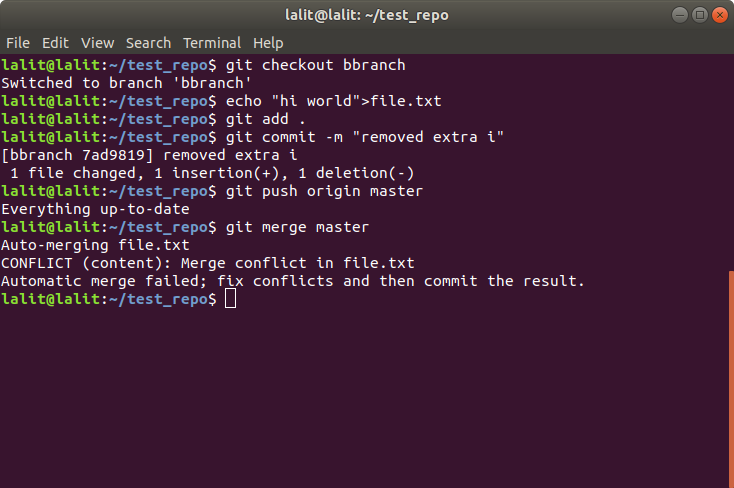
1. **Diverge them with commits**

**diverge occurs when we have two different commits on same file from local and remote repository.**

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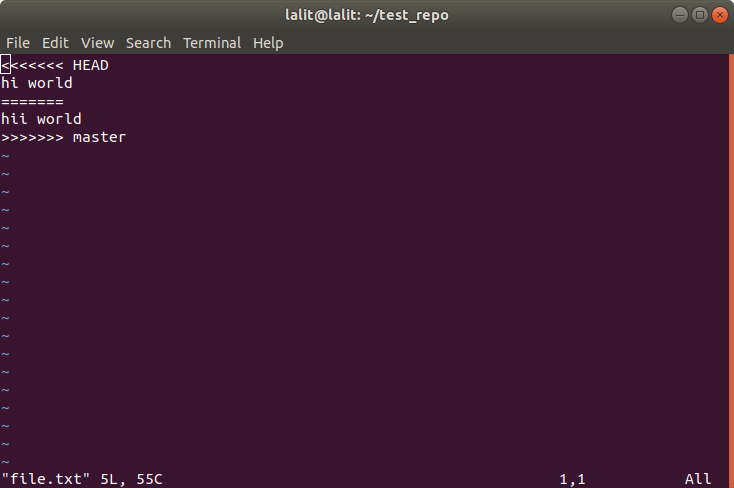
1. **Edit the same file at the same line on both branches and commit**

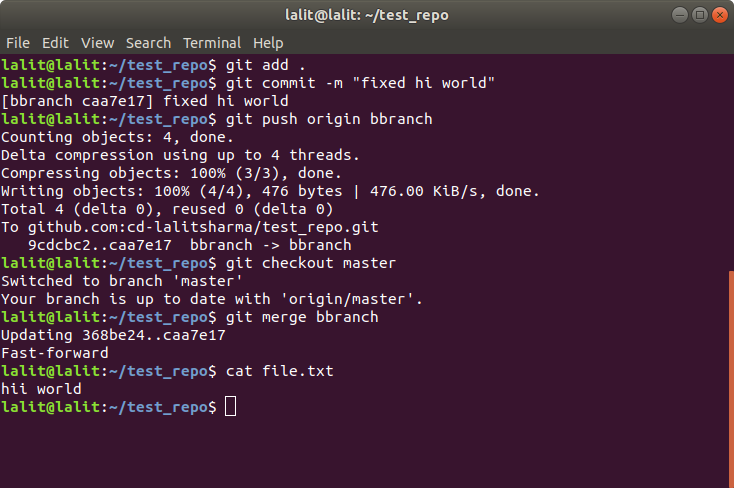
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1. **Try merging and resolve merge conflicts**

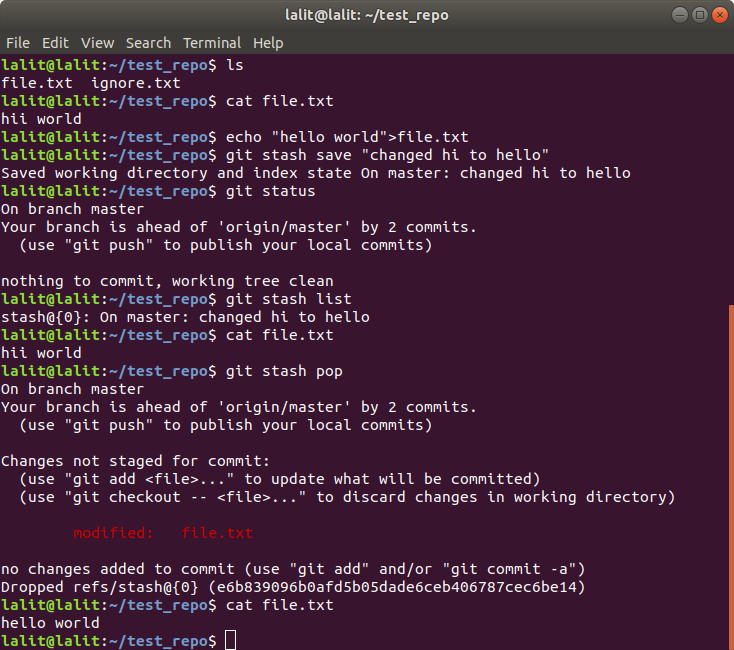
**here we can see files have conflicts.so, we can remove them by deleting lines we don’t need and then commiting and pushing that file.**

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1. **Stash the changes and pop them**

**stash saves the changes locally and it can keep them even if we switch branch, stash pop removes the stash from top of stack and remove change from stash stack.**

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