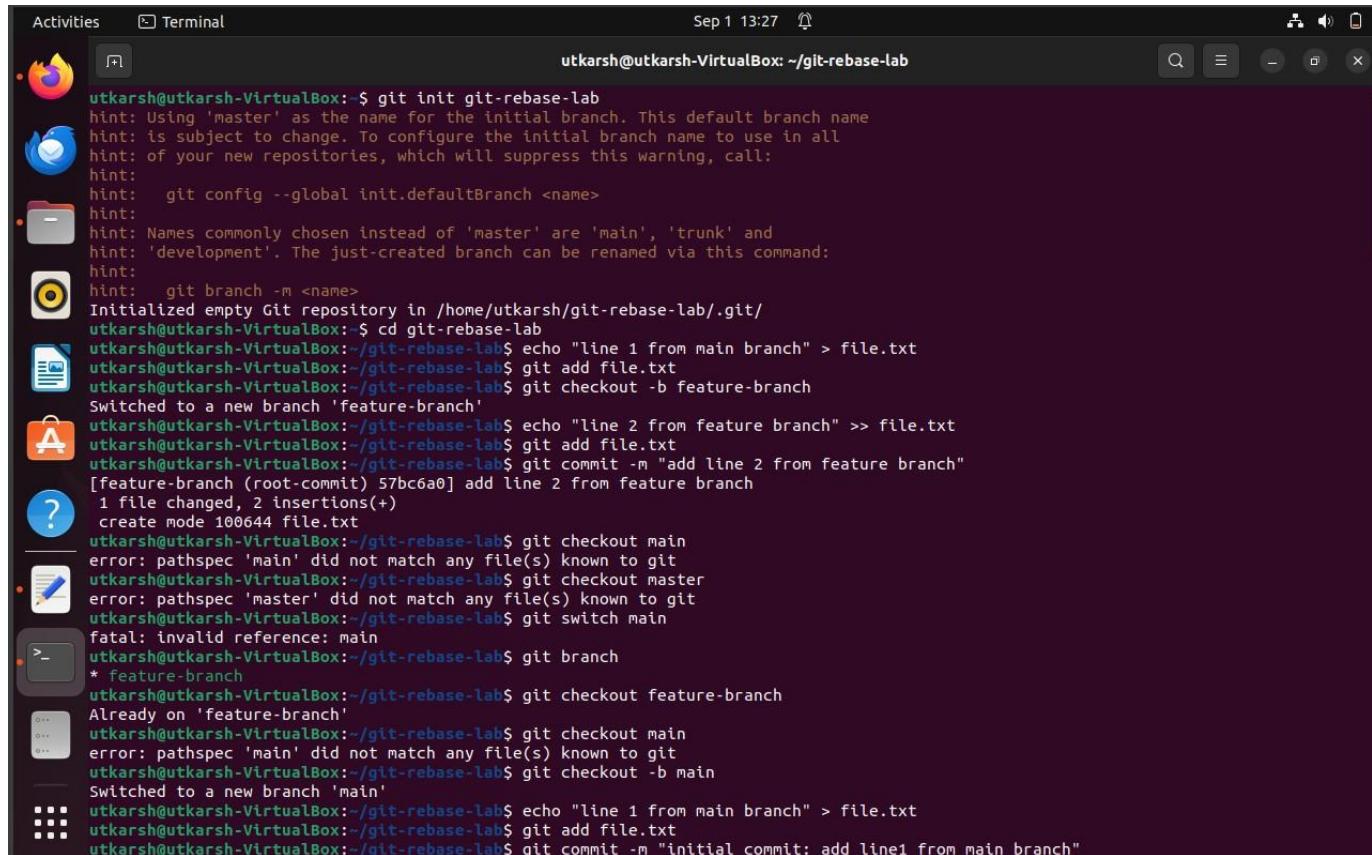


Name – Utkarsh Rawat

SapID – 500124586

B-3 DevOps

Lab 3 git rebase



A screenshot of a Linux desktop environment showing a terminal window. The terminal window is titled "utkarsh@utkarsh-VirtualBox: ~/git-rebase-lab". The terminal content shows the following sequence of commands and their output:

```
utkarsh@utkarsh-VirtualBox:~$ git init git-rebase-lab
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/utkarsh/git-rebase-lab/.git/
utkarsh@utkarsh-VirtualBox:~$ cd git-rebase-lab
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ echo "line 1 from main branch" > file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git add file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout -b feature-branch
Switched to a new branch 'feature-branch'
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ echo "line 2 from feature branch" >> file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git add file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git commit -m "add line 2 from feature branch"
[feature-branch (root-commit) 57bc6a0] add line 2 from feature branch
 1 file changed, 2 insertions(+)
 create mode 100644 file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout main
error: pathspec 'main' did not match any file(s) known to git
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout master
error: pathspec 'master' did not match any file(s) known to git
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git switch main
fatal: invalid reference: main
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git branch
* feature-branch
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout feature-branch
Already on 'feature-branch'
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout main
error: pathspec 'main' did not match any file(s) known to git
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout -b main
Switched to a new branch 'main'
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ echo "line 1 from main branch" > file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git add file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git commit -m "initial commit: add line1 from main branch"
```

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```
[main 58fa989] initial commit: add line1 from main branch
 1 file changed, 1 deletion(-)
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ echo "line 3 from main branch" >> file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git add file.txt
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git commit -m "add line 3 from main branch"
[main 7c185a7] add line 3 from main branch
 1 file changed, 1 insertion(+)
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git checkout feature-branch
Switched to branch 'feature-branch'
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git rebase main
Successfully rebased and updated refs/heads/feature-branch.
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git log --oneline
7c185a7 (HEAD -> feature-branch, main) add line 3 from main branch
58fa989 initial commit: add line1 from main branch
57bc6a0 add line 2 from feature branch
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git log --oneline -graph
fatal: unrecognized argument: -graph
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git log --oneline --graph
* 7c185a7 (HEAD -> feature-branch, main) add line 3 from main branch
* 58fa989 initial commit: add line1 from main branch
* 57bc6a0 add line 2 from feature branch
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ cat file.txt
line 1 from main branch
line 3 from main branch
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ cat file.txt
line 1 from main branch
line 3 from main branch
line 2 from feature branch
```

```
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git remote remove origin
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git remote -v
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git remote add origin https://github.com/utkar-shh/devops-lab-1
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git push -u origin main
Username for 'https://github.com': utkar-shh
Password for 'https://utkar-shh@github.com':
To https://github.com/utkar-shh/devops-lab-1
```

```
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$ git push -u origin feature-branch
Username for 'https://github.com': utkar-shh
Password for 'https://utkar-shh@github.com':
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Compressing objects: 100% (6/6), done.
Writing objects: 100% (12/12), 1023 bytes | 1023.00 KiB/s, done.
Total 12 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature-branch' on GitHub by visiting:
remote:     https://github.com/utkar-shh/devops-lab-1/pull/new/feature-branch
remote:
To https://github.com/utkar-shh/devops-lab-1
 * [new branch]      feature-branch -> feature-branch
Branch 'feature-branch' set up to track remote branch 'feature-branch' from 'origin'.
utkarsh@utkarsh-VirtualBox:~/git-rebase-lab$
```