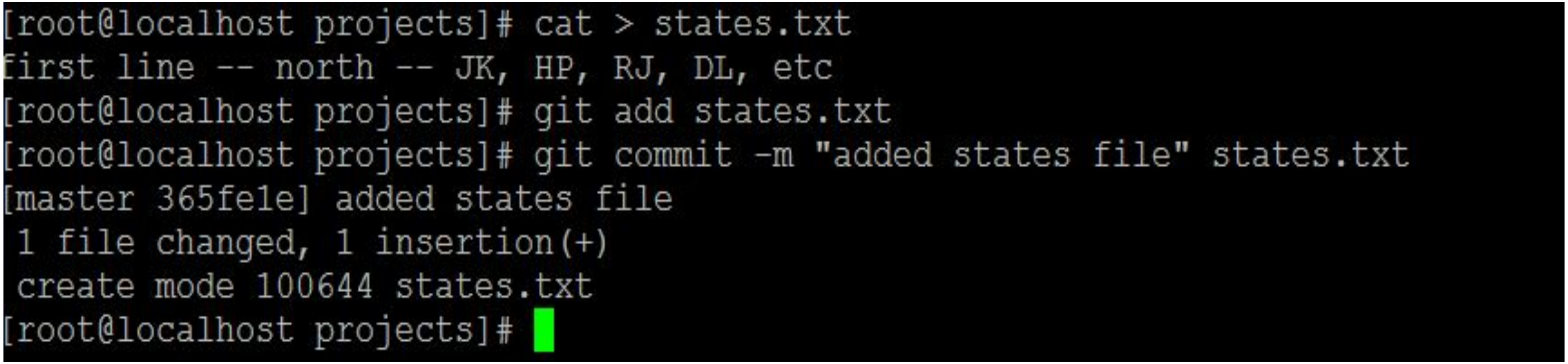
Part 9 - Backing out Changes

Q. How to Unstage the Files from staging area ?

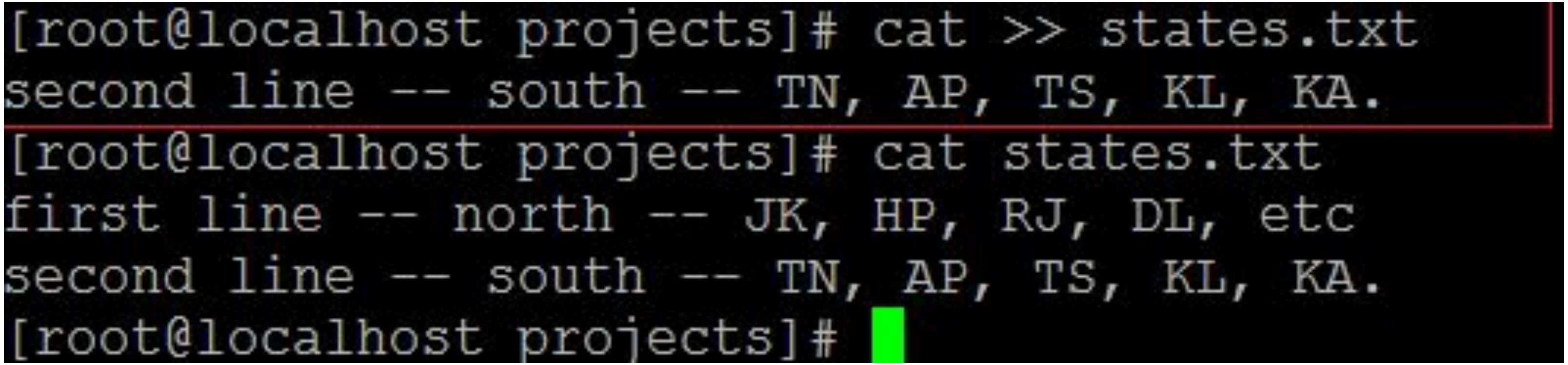
- Let us create the file states.txt
- Add to staging area and Local Repository



```
[root@localhost projects]# cat > states.txt
first line -- north -- JK, HP, RJ, DL, etc
[root@localhost projects]# git add states.txt
[root@localhost projects]# git commit -m "added states file" states.txt
[master 365fe1e] added states file
 1 file changed, 1 insertion(+)
 create mode 100644 states.txt
[root@localhost projects]# 
```

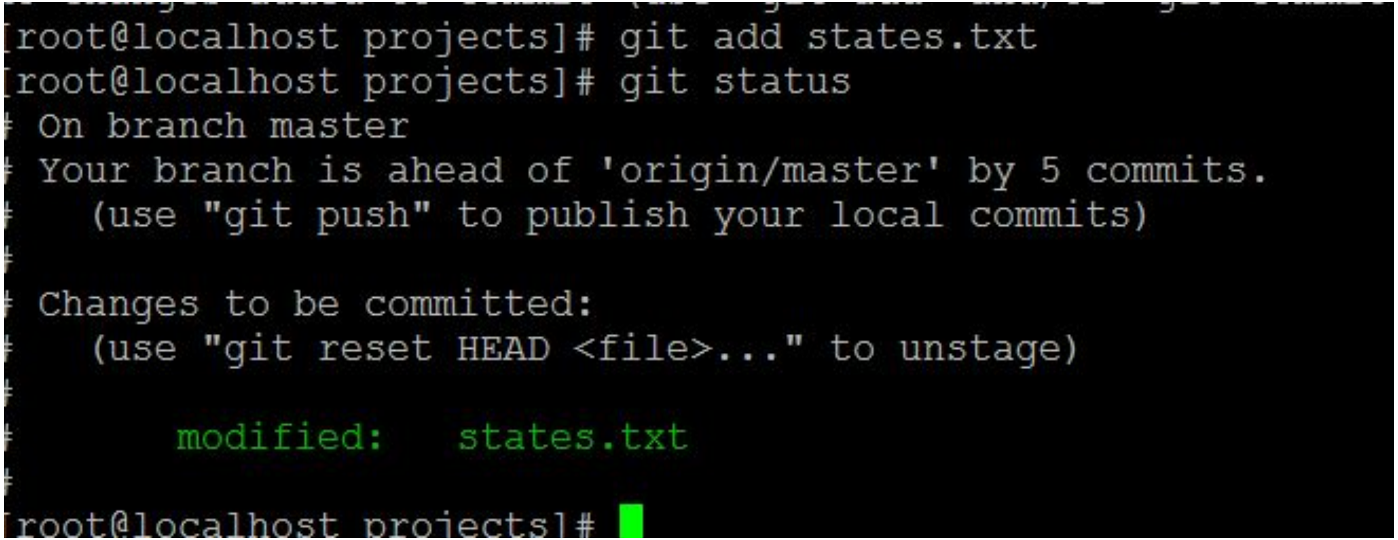
Now, let us make the changes to file states.txt

- Adding second line to states.txt



```
[root@localhost projects]# cat >> states.txt
second line -- south -- TN, AP, TS, KL, KA.
[root@localhost projects]# cat states.txt
first line -- north -- JK, HP, RJ, DL, etc
second line -- south -- TN, AP, TS, KL, KA.
[root@localhost projects]# 
```

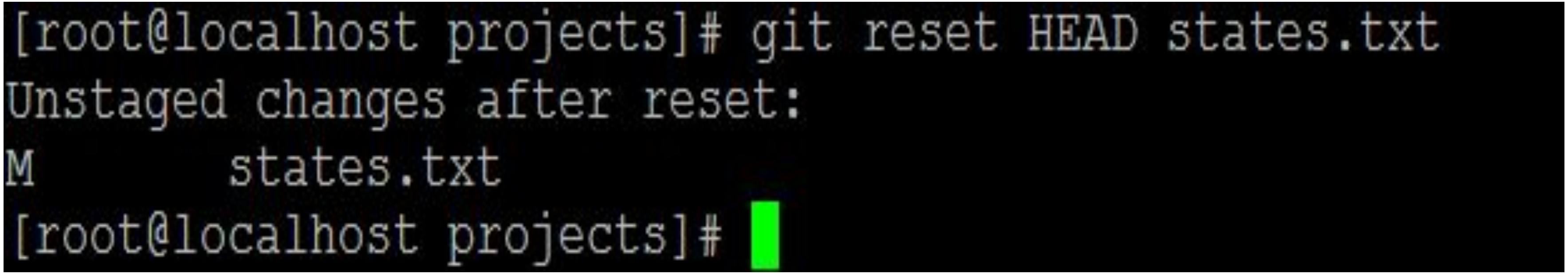
Adding file states.txt to staging area



```
[root@localhost projects]# git add states.txt
[root@localhost projects]# git status
# On branch master
# Your branch is ahead of 'origin/master' by 5 commits.
#   (use "git push" to publish your local commits)
#
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       modified:   states.txt
#
[root@localhost projects]# 
```

Now, let us backout the changes from staging area ..

# git reset HEAD <file_name> → # git reset HEAD states.txt

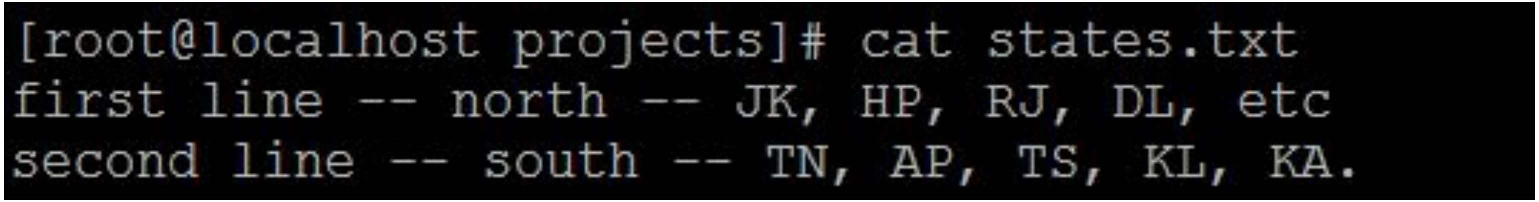


```
[root@localhost projects]# git reset HEAD states.txt
Unstaged changes after reset:
M       states.txt
[root@localhost projects]# 
```

Now, backout the changes to previous snapshot of file, states.txt that was committed in Local Repository

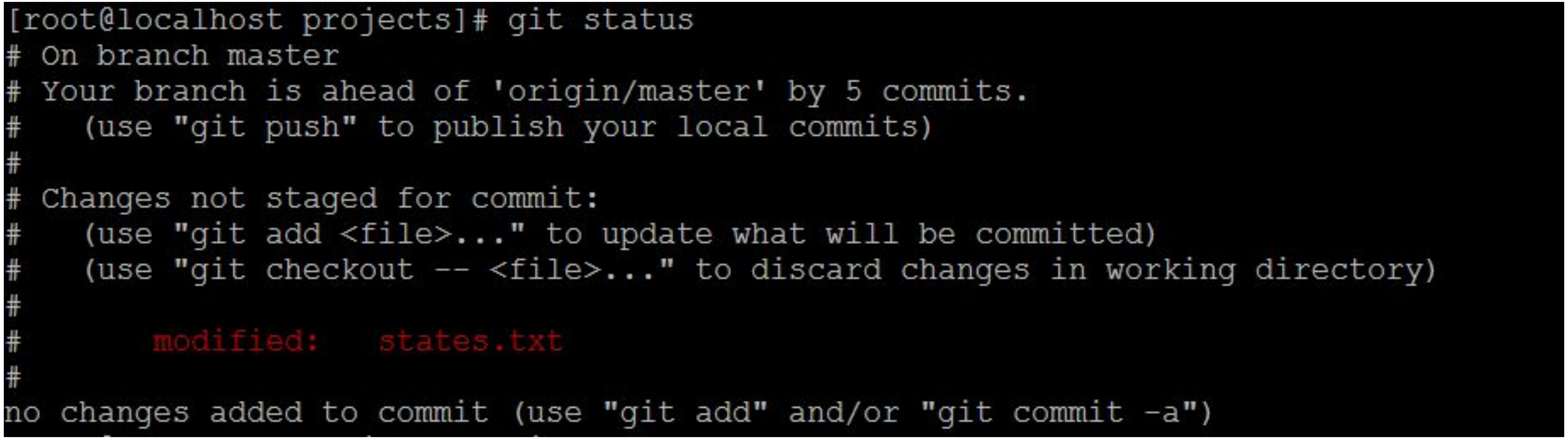
# git checkout -- <file_name> → # git checkout -- states.txt

- Presently file States.txt content looks like below -



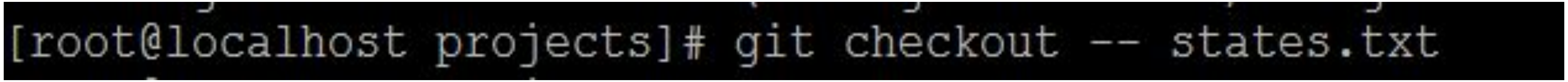
```
[root@localhost projects]# cat states.txt
first line -- north -- JK, HP, RJ, DL, etc
second line -- south -- TN, AP, TS, KL, KA.
```

- Executing git status



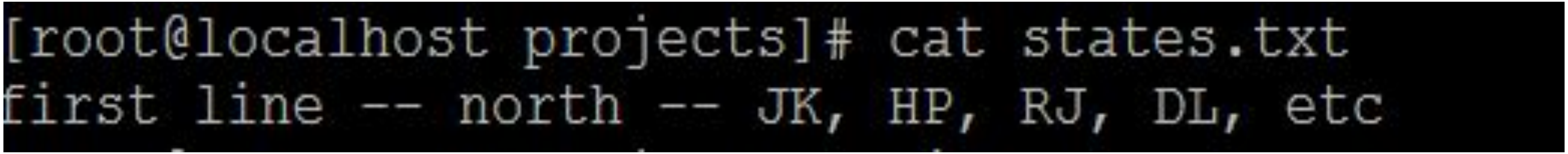
```
[root@localhost projects]# git status
# On branch master
# Your branch is ahead of 'origin/master' by 5 commits.
#   (use "git push" to publish your local commits)
#
# Changes not staged for commit:
#   (use "git add <file>..." to update what will be committed)
#   (use "git checkout -- <file>..." to discard changes in working directory)
#
#       modified:   states.txt
#
no changes added to commit (use "git add" and/or "git commit -a")
```

- Executing git checkout command



```
[root@localhost projects]# git checkout -- states.txt
```

Now, verify the file states.txt



```
[root@localhost projects]# cat states.txt
first line -- north -- JK, HP, RJ, DL, etc
```

Expected Interview Questions -

Q. Purpose of git checkout

Q. Demonstrate the backout changes from staging and from, Local Repository

THANK YOU