

Step 1 : Create a feature branch

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git checkout -b feature-student
Switched to a new branch 'feature-student'
```

Step 2: Switch to the new branch.

open the file and make some changes to it.

Add and commit the changes to the new branch.

open the same file and make some changes to it.

Add and commit the changes to the new branch.

open the same file and make some changes to it.

Add and commit the changes to the new branch.

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git commit -m 'craeted student.py file'
[feature-student 7147c96] craeted student.py file
```

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git commit -m 'implemented constructor method for Student class'
[feature-student 0ec413e] implemented constructor method for Student class
1 file changed, 5 insertions(+), 1 deletion(-)
```

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git commit -m 'added show_marks functionality in Student class'
[feature-student c690ee3] added show_marks functionality in Student class
1 file changed, 2 insertions(+)
```

Step 3: Use the "git log" command to view the commit history and identify the commit to which you want to reset.

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git log --oneline
c690ee3 (HEAD -> feature-student) added show_marks functionality in Student class
0ec413e implemented constructor method for Student class
7147c96 craeted student.py file
12341fc (main) adding bike class
1ee661f (origin/main, origin/HEAD) Merge branch 'main' of https://github.com/Mallikharjuna71/git_assignment
cf999d8 (feature-list) adding fib() function
5091a9f Merge pull request #1 from Mallikharjuna71/feature-list
4a8419b adding fib() function
e706ffd (origin/feature-list) adding main.py file
c50077b (branch1) adding udfs.py file
adb0061 Initial commit
```

Step 4: Use the "git reset" command followed by the desired reset type and the commit hash

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git reset 7147c96
Unstaged changes after reset:
M      student.py
```

Step 5: Verify that the reset was successful by using the "git log" command again.

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git log --oneline
7147c96 (HEAD -> feature-student) craeted student.py file
12341fc (main) adding bike class
1ee661f (origin/main, origin/HEAD) Merge branch 'main' of https://github.com/Mallikharjuna71/git_assignment
cf999d8 (feature-list) adding fib() function
5091a9f Merge pull request #1 from Mallikharjuna71/feature-list
4a8419b adding fib() function
e706ffd (origin/feature-list) adding main.py file
c50077b (branch1) adding udfs.py file
adb0061 Initial commit
```

Step 6: Use the "git log" command to view the commit history and identify the commit that you want to reverse.

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git log --oneline
7147c96 (HEAD -> feature-student) craeted student.py file
12341fc (main) adding bike class
1ee661f (origin/main, origin/HEAD) Merge branch 'main' of https://github.com/Mallikharjuna71/git_assignment
cf999d8 (feature-list) adding fib() function
5091a9f Merge pull request #1 from Mallikharjuna71/feature-list
4a8419b adding fib() function
e706ffd (origin/feature-list) adding main.py file
c50077b (branch1) adding udfs.py file
adb0061 Initial commit
```

Step 7: Use the "git revert" command followed by the commit hash or reference to which you want to revert. (Hint: git revert )

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git revert adb0061
[main 51e150c] Revert "Initial commit"
 1 file changed, 1 deletion(-)
 delete mode 100644 README.md
```

Step 8: Verify that the revert was successful by using the "git log" command again.

```
PS C:\Users\arjun\Desktop\Git_Practice\git_assignment> git log --oneline
51e150c (HEAD -> main) Revert "Initial commit"
12341fc (origin/main, origin/HEAD) adding bike class
1ee661f Merge branch 'main' of https://github.com/Mallikharjuna71/git_assignment
cf999d8 (feature-list) adding fib() function
5091a9f Merge pull request #1 from Mallikharjuna71/feature-list
4a8419b adding fib() function
e706ffd (origin/feature-list) adding main.py file
c50077b (branch1) adding udfs.py file
adb0061 Initial commit
```