

Assignment 1:

```
GitAssignments — zsh — 114x36

swapnilkale@Swapnils-MBP Downloads % mkdir GitAssignments
swapnilkale@Swapnils-MBP Downloads % cd GitAssignment
cd: no such file or directory: GitAssignment
swapnilkale@Swapnils-MBP Downloads % cd GitAssignments
swapnilkale@Swapnils-MBP GitAssignments % ls
swapnilkale@Swapnils-MBP GitAssignments % ls -a
.
..
swapnilkale@Swapnils-MBP GitAssignments % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/GitAssignments/.git/
swapnilkale@Swapnils-MBP GitAssignments % ls -a
.
..
.git
swapnilkale@Swapnils-MBP GitAssignments % git add index.html
fatal: pathspec 'index.html' did not match any files
swapnilkale@Swapnils-MBP GitAssignments % ls
swapnilkale@Swapnils-MBP GitAssignments % vim index.html
swapnilkale@Swapnils-MBP GitAssignments % cat index.html
<h1> Hello world </h1>
swapnilkale@Swapnils-MBP GitAssignments % ls
index.html
swapnilkale@Swapnils-MBP GitAssignments % git add index.html
swapnilkale@Swapnils-MBP GitAssignments % git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
[     new file:  index.html

swapnilkale@Swapnils-MBP GitAssignments % git commit -m "Initial Message"
[master (root-commit) 8615e61] Initial Message
1 file changed, 1 insertion(+)
create mode 100644 index.html
swapnilkale@Swapnils-MBP GitAssignments %
```

Exercise 2

```
swapnilkale@Swapnils-MBP GitAssignments % cd downloads
cd: no such file or directory: downloads
swapnilkale@Swapnils-MBP GitAssignments % mkdir exercise-2
swapnilkale@Swapnils-MBP GitAssignments % cd exercise-2
swapnilkale@Swapnils-MBP exercise-2 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/GitAssignments/exercise-2/.git/
swapnilkale@Swapnils-MBP exercise-2 % ls
swapnilkale@Swapnils-MBP exercise-2 % ls -a
. ..
.git
swapnilkale@Swapnils-MBP exercise-2 % echo "this is an index file" >> index.html
swapnilkale@Swapnils-MBP exercise-2 % ls
index.html
swapnilkale@Swapnils-MBP exercise-2 % echo "this is an about file" >> about.html
swapnilkale@Swapnils-MBP exercise-2 % ls
about.html      index.html
swapnilkale@Swapnils-MBP exercise-2 % git add about.html
swapnilkale@Swapnils-MBP exercise-2 % git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
  new file:   about.html

Untracked files:
(use "git add <file>..." to include in what will be committed)
  index.html

swapnilkale@Swapnils-MBP exercise-2 % git commit -m "file about.html is added"
[master (root-commit) f5780c9] file about.html is added
 1 file changed, 1 insertion(+)
 create mode 100644 about.html
swapnilkale@Swapnils-MBP exercise-2 %
```

Exercise 3

```
[swapnilkale@Swapnails-MBP ~ % cd downloads
swapnilkale@Swapnails-MBP downloads % mkdir exercise-3
swapnilkale@Swapnails-MBP downloads % ls
Applications           Git_dir          Python Class      clonegit
Consultadd             Grad Project Docs  Resume          clonemaster
GitAssignments         Imp Docs          UNIX2020 recordings 2  exercise-3
Git_Assignment.pdf    Ivynova          clone1
swapnilkale@Swapnails-MBP downloads % cd exercise-3
swapnilkale@Swapnails-MBP exercise-3 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/exercise-3/.git/
swapnilkale@Swapnails-MBP exercise-3 % ls -a
.   ..   .git
swapnilkale@Swapnails-MBP exercise-3 % echo "This is an index file" >> Index.html
swapnilkale@Swapnails-MBP exercise-3 % ls
Index.html
swapnilkale@Swapnails-MBP exercise-3 % git add index.html
swapnilkale@Swapnails-MBP exercise-3 % git status
On branch master

No commits yet

Untracked files:
(use "git add <file>..." to include in what will be committed)
[     Index.html
[

nothing added to commit but untracked files present (use "git add" to track)
swapnilkale@Swapnails-MBP exercise-3 % git commit -m "adding index.html"
On branch master
[

Initial commit

Untracked files:
[     Index.html
[

nothing added to commit but untracked files present
swapnilkale@Swapnails-MBP exercise-3 % git add Index.html
swapnilkale@Swapnails-MBP exercise-3 % git status
On branch master
[

No commits yet
[

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
      new file:   Index.html
[
```

```
swapnilkale@Swapnils-MBP exercise-3 % git commit -m "adding index.html"
[master (root-commit) ea5fffe] adding index.html
 1 file changed, 1 insertion(+)
 create mode 100644 Index.html
swapnilkale@Swapnils-MBP exercise-3 % echo "this is an about file" >> about.html
swapnilkale@Swapnils-MBP exercise-3 % ls
Index.html      about.html
swapnilkale@Swapnils-MBP exercise-3 % git commit --amend -m "adding Index.html and about.html"
[master 2270ade] adding Index.html and about.html
 Date: Sun Apr 11 21:43:34 2021 -0700
 1 file changed, 1 insertion(+)
 create mode 100644 Index.html
swapnilkale@Swapnils-MBP exercise-3 % git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about.html

nothing added to commit but untracked files present (use "git add" to track)
swapnilkale@Swapnils-MBP exercise-3 % git add about.html
swapnilkale@Swapnils-MBP exercise-3 % git commit -m "adding index.html file"
[master 41e288c] adding index.html file
 1 file changed, 1 insertion(+)
 create mode 100644 about.html
swapnilkale@Swapnils-MBP exercise-3 % git commit --amend -m "adding about.html file"
[master ea54d40] adding about.html file
 Date: Sun Apr 11 21:55:39 2021 -0700
 1 file changed, 1 insertion(+)
 create mode 100644 about.html
swapnilkale@Swapnils-MBP exercise-3 % git status
On branch master
nothing to commit, working tree clean
swapnilkale@Swapnils-MBP exercise-3 %
```

Assignment 4:

```
swapnilkale@Swapnils-MBP exercise-3 % clear

swapnilkale@Swapnils-MBP exercise-3 % cd downloads
cd: no such file or directory: downloads
swapnilkale@Swapnils-MBP exercise-3 % mkdir exercise-4
swapnilkale@Swapnils-MBP exercise-3 % cd exercise-4
swapnilkale@Swapnils-MBP exercise-4 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/exercise-3/exercise-4/.git/
swapnilkale@Swapnils-MBP exercise-4 % ls -a
. .. .git
swapnilkale@Swapnils-MBP exercise-4 % touch .gitignore
|swapnilkale@Swapnils-MBP exercise-4 % ls
|swapnilkale@Swapnils-MBP exercise-4 % ls -a
. .. .git .gitignore
|swapnilkale@Swapnils-MBP exercise-4 % echo "this is exe file" >> test.exe
|swapnilkale@Swapnils-MBP exercise-4 % echo "this is o file" >> test1.o
|swapnilkale@Swapnils-MBP exercise-4 % echo "ths is jar file" >> test2.jar
|swapnilkale@Swapnils-MBP exercise-4 % ls
test.exe test1.o test2.jar
|swapnilkale@Swapnils-MBP exercise-4 % cat .gitignore
|swapnilkale@Swapnils-MBP exercise-4 % ls
test.exe test1.o test2.jar
|swapnilkale@Swapnils-MBP exercise-4 % cd .gitignore
cd: not a directory: .gitignore
|swapnilkale@Swapnils-MBP exercise-4 % ls
test.exe test1.o test2.jar
|swapnilkale@Swapnils-MBP exercise-4 % clear

|swapnilkale@Swapnils-MBP exercise-4 % touch .gitignore
|swapnilkale@Swapnils-MBP exercise-4 % ls
test.exe test1.o test2.jar
|swapnilkale@Swapnils-MBP exercise-4 % ls -a
. .. .git .gitignore test.exe test1.o test2.jar
|swapnilkale@Swapnils-MBP exercise-4 % cat .gitignore
*.exe
*.jar
*.o
```

Exercise 6:

```
[swapnilkale@Swapnils-MBP downloads % mkdir exercise-6
[swapnilkale@Swapnils-MBP downloads % cd exercise-6
[swapnilkale@Swapnils-MBP exercise-6 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/exercise-6/.git/
[swapnilkale@Swapnils-MBP exercise-6 % ls
[swapnilkale@Swapnils-MBP exercise-6 % ls -a
.          ..
[swapnilkale@Swapnils-MBP exercise-6 % echo "this is an index file" >> index.html
[swapnilkale@Swapnils-MBP exercise-6 % echo "this is an about file">>> about.html
[swapnilkale@Swapnils-MBP exercise-6 % git add .
[swapnilkale@Swapnils-MBP exercise-6 % git commit -m "adding both files"
[master (root-commit) fd1557a] adding both files
 2 files changed, 2 insertions(+)
  create mode 100644 about.html
  create mode 100644 index.html
[swapnilkale@Swapnils-MBP exercise-6 % echo "this is an about2 file" >> about2.html
[swapnilkale@Swapnils-MBP exercise-6 % git add .
[swapnilkale@Swapnils-MBP exercise-6 % git commit -m "adding about2 file"
[master 2e83fd7] adding about2 file
 1 file changed, 1 insertion(+)
  create mode 100644 about2.html
[swapnilkale@Swapnils-MBP exercise-6 % ls
about.html      about2.html      index.html
[swapnilkale@Swapnils-MBP exercise-6 % git reset --soft HEAD
[swapnilkale@Swapnils-MBP exercise-6 % git reset --soft HEAD~1
[swapnilkale@Swapnils-MBP exercise-6 % git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   about2.html
```

Exercise 7

```
[swapnilkale@Swapnils-MBP downloads % mkdir exercise-07
[swapnilkale@Swapnils-MBP downloads % cd exercise-07
[swapnilkale@Swapnils-MBP exercise-07 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/exercise-07/.git/
[swapnilkale@Swapnils-MBP exercise-07 % ls -a
. .. .git
[swapnilkale@Swapnils-MBP exercise-07 % echo "this is 1st file" >> first.html
[swapnilkale@Swapnils-MBP exercise-07 % git add first.html
[swapnilkale@Swapnils-MBP exercise-07 % git commit -m "first file added"
[master (root-commit) 4cd0338] first file added
 1 file changed, 1 insertion(+)
 create mode 100644 first.html
[swapnilkale@Swapnils-MBP exercise-07 % echo "this is 2nd file" >> second.html
[swapnilkale@Swapnils-MBP exercise-07 % git add .
[swapnilkale@Swapnils-MBP exercise-07 % git commit -m "second file"
[master 565dd65] second file
 1 file changed, 1 insertion(+)
 create mode 100644 second.html
[swapnilkale@Swapnils-MBP exercise-07 % git log
commit 565dd6587a2cf9417084885a50103a4e2cf2d24f (HEAD -> master)
Author: gaurinade <gaurinade3@gmail.com>
Date:   Sun Apr 11 22:53:40 2021 -0700

    second file

commit 4cd0338f30ddaae2375fcf9dab9dec40b193a179
Author: gaurinade <gaurinade3@gmail.com>
Date:   Sun Apr 11 22:52:57 2021 -0700

    first file added
[swapnilkale@Swapnils-MBP exercise-07 % git reset --hard HEAD~1
HEAD is now at 4cd0338 first file added
[swapnilkale@Swapnils-MBP exercise-07 % git log | cat
commit 4cd0338f30ddaae2375fcf9dab9dec40b193a179
Author: gaurinade <gaurinade3@gmail.com>
Date:   Sun Apr 11 22:52:57 2021 -0700

    first file added
swapnilkale@Swapnils-MBP exercise-07 % ]
```

Exercise 8:

```
[swapnilkale@Swapnils-MBP downloads % mkdir exercise-8
[swapnilkale@Swapnils-MBP downloads % cd exercise-8
[swapnilkale@Swapnils-MBP exercise-8 % ls -a
.
..
[swapnilkale@Swapnils-MBP exercise-8 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/exercise-8/.git/
[swapnilkale@Swapnils-MBP exercise-8 % ls -a
.
..
.git
[swapnilkale@Swapnils-MBP exercise-8 % echo "this is an index file" >> index.html
[swapnilkale@Swapnils-MBP exercise-8 % git add .
[swapnilkale@Swapnils-MBP exercise-8 % git commit -m "index file"
[master (root-commit) 1965214] index file
 1 file changed, 1 insertion(+)
 create mode 100644 index.html
[swapnilkale@Swapnils-MBP exercise-8 % git branch my-feature
[swapnilkale@Swapnils-MBP exercise-8 % git branch
* master
  my-feature
[swapnilkale@Swapnils-MBP exercise-8 % git checkout my-feature
Switched to branch 'my-feature'
[swapnilkale@Swapnils-MBP exercise-8 % git branch
  master
* my-feature
[swapnilkale@Swapnils-MBP exercise-8 % echo "this is about file" >> about-us.html
[swapnilkale@Swapnils-MBP exercise-8 % git add .
[swapnilkale@Swapnils-MBP exercise-8 % git commit -m "about-us.html"
[my-feature 0dff2e9] about-us.html
 1 file changed, 1 insertion(+)
 create mode 100644 about-us.html
[swapnilkale@Swapnils-MBP exercise-8 % git checkout master
Switched to branch 'master'
[swapnilkale@Swapnils-MBP exercise-8 % git branch
* master
  my-feature
[swapnilkale@Swapnils-MBP exercise-8 % git merge my-feature
Updating 1965214..0dff2e9
Fast-forward
 about-us.html | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 about-us.html
swapnilkale@Swapnils-MBP exercise-8 %
```

Exercise-9

```
[swapnilkale@Swapnails-MBP downloads % mkdir exercise-9
[swapnilkale@Swapnails-MBP downloads % cd exercise-9
[swapnilkale@Swapnails-MBP exercise-9 % git init
Initialized empty Git repository in /Users/swapnilkale/Downloads/exercise-9/.git/
[swapnilkale@Swapnails-MBP exercise-9 % echo "this is index file" >> index.html
[swapnilkale@Swapnails-MBP exercise-9 % git add .
[swapnilkale@Swapnails-MBP exercise-9 % git commit -m "adding index file"
[master (root-commit) 1a81ff9] adding index file
 1 file changed, 1 insertion(+)
 create mode 100644 index.html
[swapnilkale@Swapnails-MBP exercise-9 % git branch
* master
[swapnilkale@Swapnails-MBP exercise-9 % git branch my-feature
[swapnilkale@Swapnails-MBP exercise-9 % git branch
* master
  my-feature
[swapnilkale@Swapnails-MBP exercise-9 % git checkout my-feature
Switched to branch 'my-feature'
[swapnilkale@Swapnails-MBP exercise-9 % echo "this is about us file" >> about-us.html
[swapnilkale@Swapnails-MBP exercise-9 % git add .
[swapnilkale@Swapnails-MBP exercise-9 % git commit -m "adding about-us.html"
[my-feature 978b3da] adding about-us.html
 1 file changed, 1 insertion(+)
 create mode 100644 about-us.html
[swapnilkale@Swapnails-MBP exercise-9 % git status
On branch my-feature
nothing to commit, working tree clean
[swapnilkale@Swapnails-MBP exercise-9 % git reset --soft HEAD~1
[swapnilkale@Swapnails-MBP exercise-9 % git status
On branch my-feature
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   about-us.html

[swapnilkale@Swapnails-MBP exercise-9 % git branch
  master
* my-feature
[swapnilkale@Swapnails-MBP exercise-9 % git status
On branch my-feature
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
```

```
new file:   about-us.html

[swapnilkale@Swapnils-MBP exercise-9 % git restore --staged about-us.html
[swapnilkale@Swapnils-MBP exercise-9 % git status
On branch my-feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about-us.html

nothing added to commit but untracked files present (use "git add" to track)
[swapnilkale@Swapnils-MBP exercise-9 % ls
about-us.html  index.html
[swapnilkale@Swapnils-MBP exercise-9 % vim index.html
[swapnilkale@Swapnils-MBP exercise-9 % git status
On branch my-feature
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    about-us.html

no changes added to commit (use "git add" and/or "git commit -a")
[swapnilkale@Swapnils-MBP exercise-9 % git add .
[swapnilkale@Swapnils-MBP exercise-9 % git commit -m "adding updated index and about-us file in feature branch"
[my-feature 93f75c4] adding updated index and about-us file in feature branch
  2 files changed, 2 insertions(+)
  create mode 100644 about-us.html
[swapnilkale@Swapnils-MBP exercise-9 % git status
On branch my-feature
nothing to commit, working tree clean
[swapnilkale@Swapnils-MBP exercise-9 % git checkout master
Switched to branch 'master'
[swapnilkale@Swapnils-MBP exercise-9 % ls
index.html
[swapnilkale@Swapnils-MBP exercise-9 % vim index.html
[swapnilkale@Swapnils-MBP exercise-9 % git status
On branch master
```

```
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
[swapnilkale@Swapnils-MBP exercise-9 % git add .
[swapnilkale@Swapnils-MBP exercise-9 % git commit -m "updated index.html in master"
[master 306f3be] updated index.html in master
 1 file changed, 1 insertion(+)
[swapnilkale@Swapnils-MBP exercise-9 % git branch
* master
  my-feature
[swapnilkale@Swapnils-MBP exercise-9 % git merge my-feature
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.
[swapnilkale@Swapnils-MBP exercise-9 % git diff
diff --cc index.html
index acaaee80,457b9f0..0000000
--- a/index.html
+++ b/index.html
@@@ -1,2 -1,2 +1,6 @@@
  this is index file
+<<<<< HEAD
+adding 2nd line in master branch
+=====
+ adding 2nd line in feature branch
+>>>>> my-feature
[swapnilkale@Swapnils-MBP exercise-9 % git diff | cat
diff --cc index.html
index acaaee80,457b9f0..0000000
--- a/index.html
+++ b/index.html
@@@ -1,2 -1,2 +1,6 @@@
  this is index file
+<<<<< HEAD
+adding 2nd line in master branch
+=====
+ adding 2nd line in feature branch
+>>>>> my-feature
```

```
|swapnilkale@Swapnils-MBP exercise-9 % git mergetool

This message is displayed because 'merge.tool' is not configured.
See 'git mergetool --tool-help' or 'git help config' for more details.
'git mergetool' will now attempt to use one of the following tools:
opendiff tortoisemerge emerge vimdiff
Merging:
index.html

Normal merge conflict for 'index.html':
 {local}: modified file
 {remote}: modified file
Hit return to start merge resolution tool (opendiff): git config merge.tool vimdiff
xcode-select: error: tool 'opendiff' requires Xcode, but active developer directory '/Library/Developer/CommandLineTools' is a command line tools instance
index.html seems unchanged.
Was the merge successful [y/n]? n
merge of index.html failed
|swapnilkale@Swapnils-MBP exercise-9 % git config merge.tool vimdiff
|swapnilkale@Swapnils-MBP exercise-9 % git config merge.conflictstyle diff3
|swapnilkale@Swapnils-MBP exercise-9 % git config mergetool.prompt false
|swapnilkale@Swapnils-MBP exercise-9 % git mergetool
Merging:
index.html

Normal merge conflict for 'index.html':
 {local}: modified file
 {remote}: modified file
4 files to edit
|swapnilkale@Swapnils-MBP exercise-9 % git status
On branch master
All conflicts fixed but you are still merging.
(use "git commit" to conclude merge)

Changes to be committed:
    new file:   about-us.html
    modified:  index.html

Untracked files:
 (use "git add <file>..." to include in what will be committed)
    index.html.orig
|swapnilkale@Swapnils-MBP exercise-9 % git branch
* master
  my-feature
|swapnilkale@Swapnils-MBP exercise-9 % git add .
|swapnilkale@Swapnils-MBP exercise-9 % git commit -m "Conflict resolved!!!"
[dquote]
[dquote] git status
[dquote] ls
[dquote] ''
[dquote] ""
[dquote] "
git commit -m "Conflict resolved"git add .

git status
ls
'
"""
"
[master d78139e] Conflict resolvedgit add .
|swapnilkale@Swapnils-MBP exercise-9 % git status
On branch master
nothing to commit, working tree clean
```

```
[swapnilkale@Swapnils-MBP exercise-9 % git checkout my-feature
Switched to branch 'my-feature'
[swapnilkale@Swapnils-MBP exercise-9 % cat index.html
this is index file
adding 2nd line in feature branch
[swapnilkale@Swapnils-MBP exercise-9 % git checkout master
Switched to branch 'master'
[swapnilkale@Swapnils-MBP exercise-9 % cat index.html
this is index file
adding 2nd line in master branch
adding 2nd line in feature branch
swapnilkale@Swapnils-MBP exercise-9 %
```