Practice with all the local repository commands from the slides:

1. git init

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\esreg\Desktop\445> git init
Initialized empty Git repository in C:/Users/esreg/Desktop/445/.git/
```

2. git status

```
PS C:\Users\esreg\Desktop\445> git status
On branch master

No commits yet

Untracked files:
   (use "git add <file>..." to include in what will be committed)
        hello1.js
        hello2.html
        hi.js

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\esreg\Desktop\445> []
```

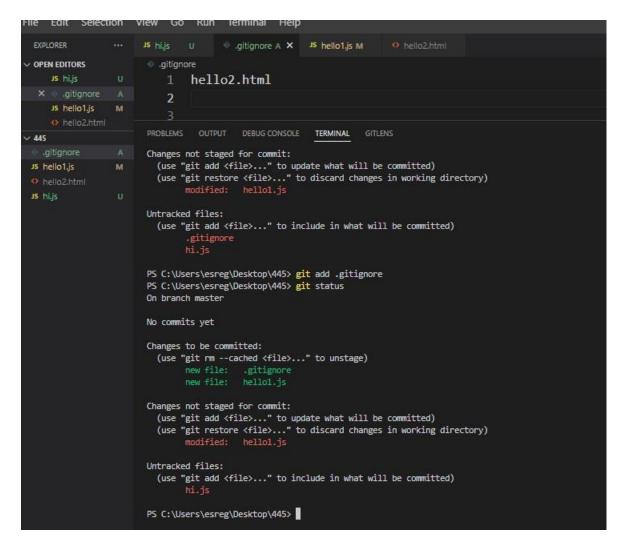
3. git diff

```
File Edit Selection View Go Run Terminal Help
                 ··· JS hi.js U
                                     .gitignore A JS hello1.js M X 🔸 hello2.html
                       JS hello1.js

∨ OPEN EDITORS

                     .gitignore A
                          2 console.log("login in");
 .gitignore A PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS
 JS hello1.js
 helio2.html
                       PS C:\Users\esreg\Desktop\445> git status
                       On branch master
                        No commits yet
                        Changes to be committed:
                               new file: .gitignore
new file: hello1.js
                        Changes not staged for commit:
                          (use "git add \langle file \rangle \dots" to update what will be committed)
                          (use "git restore <file>..." to discard changes in working directory)
                        Untracked files:
                          (use "git add <file>..." to include in what will be committed)
                        PS C:\Users\esreg\Desktop\445> git diff
                        diff --git a/hello1.js b/hello1.js
                        index 2e5dba1..2e94692 100644
                         --- a/hello1.js
                        +++ b/hello1.js
                        @@ -1 +1,2 @@
+console.log("login out");
                         console.log("login in");
                        PS C:\Users\esreg\Desktop\445>
```

4. Create .gitignore file, and notice how it works



5. git add

6. git commit

```
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)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\esreg\Desktop\445> git add hello1.js
PS C:\Users\esreg\Desktop\445> git commit -m "hello1.js file is committed to the repository"
[master 535e503] hello1.js file is committed to the repository
1 file changed, 1 insertion(+)
PS C:\Users\esreg\Desktop\445> git status
On branch master
Untracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\esreg\Desktop\445> []
```

7. git commit –amend (updating the last commit)

```
File Edit Selection View Go Run Terminal Help
                            JS hello.js X JS hi.js U
      EXPLORER
O

∨ OPEN EDITORS

                             JS hello.js
                                     You, 1 second ago | 1 author (You)
          JS hi.js
                                1 console.log("Log in here");
                               2 console.log("Log out here");
                                 3 console.log("Login is corrected!!!"); You, 1 second ago * Unc
    V 445
                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS
                             PS C:\Users\esreg\Desktop\445> git add hello.js
                             PS C:\Users\esreg\Desktop\445> git status
                             On branch master
                             Changes to be committed:
                             PS C:\Users\esreg\Desktop\445> git commit --amend -m "This is updated after correction"
                             [master 09a0fe7] This is updated after correction
                              Date: Tue Nov 1 17:48:06 2022 -0500
                              1 file changed, 3 insertions(+)
                              create mode 100644 hello.js
                             PS C:\Users\esreg\Desktop\445> git log commit 09a0fe765a3ad5bb40525a810af9986507c066da (HEAD -> master)
                             Author: Saroj Imger <esregmi@users.noreply.github.com>
Date: Tue Nov 1 17:48:06 2022 -0500
                                 This is updated after correction
                             PS C:\Users\esreg\Desktop\445> git show 09a0fe765a3a
                              commit 09a0fe765a3ad5bb40525a810af9986507c066da (HEAD -> master)
                              Author: Saroj Imger <esregmi@users.noreply.github.com>
                             Date: Tue Nov 1 17:48:06 2022 -0500
                                 This is updated after correction
                             diff --git a/hello.js b/hello.js
                              new file mode 100644
                              index 0000000..d3c1cad
                              --- /dev/null
                              +++ b/hello.js
                             +console.log("Log out here");
                              \ No newline at end of file
                             PS C:\Users\esreg\Desktop\445>
```

```
PS C:\Users\esreg\Desktop\445> git log
commit 535e503e5cd346cad6b8e3a688af3822c19825f3 (HEAD -> master)
Author: Saroj Imger <esregmi@users.noreply.github.com>
Date: Tue Nov 1 16:50:41 2022 -0500

hello1.js file is committed to the repository

commit c9a0922d878ba99b6a48e9c0a908a0bc203a404b
Author: Saroj Imger <esregmi@users.noreply.github.com>
Date: Tue Nov 1 16:48:15 2022 -0500

hello1.js file is committed in the repository

PS C:\Users\esreg\Desktop\445>
```

9. git tag

```
Comitted first time
PS C:\Users\esreg\Desktop\labPracticeGit> git tag -a v1.1 -m 4b4e0c987
PS C:\Users\esreg\Desktop\labPracticeGit> git log
commit 4b4e0c987flaf4a44adb4a5826498e3c3eebb4f9 (HEAD -> master, tag: v1.1)
Author: Saroj Imger <esregmi@users.noreply.github.com>
Date: Wed Nov 2 07:40:37 2022 -0500
```

10. git branch

```
PS C:\Users\esreg\Desktop\445> git branch
branch-1
conflict-branch
* master
```

11. git checkout

```
PS C:\Users\esreg\Desktop\445> git checkout master
Switched to branch 'master'
PS C:\Users\esreg\Desktop\445> git add .\hello.js
PS C:\Users\esreg\Desktop\445> git commit -m "master update"
```

- 12. git merge
 - Create a conflict and solve the conflict

```
PS C:\Users\esreg\Desktop\445> git merge conflict-branch
Auto-merging hello.js
CONFLICT (content): Merge conflict in hello.js
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\esreg\Desktop\445> git add .\hello.js
PS C:\Users\esreg\Desktop\445> git commit -m "Resolve conflict"
[master 8a2d1a9] Resolve conflict
PS C:\Users\esreg\Desktop\445> git log
commit 8a2d1a9c6253c5b4144e7b8e47b15fe7bc9ca627 (HEAD -> master)
Merge: ce9be0e 92fb183
Author: Saroj Imger <esregmi@users.noreply.github.com>
Date: Tue Nov 1 18:56:00 2022 -0500
    Resolve conflict
commit ce9be0eb54ccade98e3b448c514f0b6941b8fee6
Author: Saroj Imger <esregmi@users.noreply.github.com>
Date: Tue Nov 1 18:51:03 2022 -0500
    master update
commit 92fb1834ee774d9b56e2a5cbbd42056e7b48bb6e (conflict-branch)
Author: Saroj Imger <esregmi@users.noreply.github.com>
      Tue Nov 1 18:50:20 2022 -0500
    conflict-branch update
```

13. Undo changes from a certain commit git revert

```
PS C:\Users\esreg\Desktop\labPracticeGit> git revert HEAD
[master fe6ef76] Revert "apple js changes"

1 file changed, 5 insertions(+), 1 deletion(-)
PS C:\Users\esreg\Desktop\labPracticeGit> git log --oneline
fe6ef76 (HEAD -> master) Revert "apple js changes"
c0f4814 apple js changes
5879ada merged master fixed conflict in fruit branch
e5e032f (fruits) One apple a day is added here
```

14. Erase commits with git reset

```
PS C:\Users\esreg\Desktop\labPracticeGit> git reset 397efad
Unstaged changes after reset:
M apple.js
PS C:\Users\esreg\Desktop\labPracticeGit> git log --oneline
397efad (HEAD -> master) last edit
fe6ef76 Revert "apple js changes"
c0f4814 apple js changes
5879ada merged master fixed conflict in fruit branch
e5e032f (fruits) One apple a day is added here
4c0d609 Apple is updated second time
0a25160 Cherry.js is added to branch for first time
d93d878 Tag is added in the banana v1.1
2434091 this update the bananan first
eea9dbb Comitted first time
PS C:\Users\esreg\Desktop\labPracticeGit>
```