**1.Create a directory'project_dir'&cd to 'project_dir'.**

```
psritula@inlen8520087979 MINGW64 ~
$ mkdir project_dir

psritula@inlen8520087979 MINGW64 ~
$ cd project_dir
```

**2.Intialize git version database.(git init)**

```
psritula@inlen8520087979 MINGW64 ~/project_dir
$ git init
Initialized empty Git repository in C:/Users/psritula/project_dir/.git/
```

**3.Create a new file index.html.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ touch index.html
```

**4.Check the git status. You should find index.html as untracked file.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ 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)
```

**5.Stage the index.html file.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git add index.html
```

**6.Commit index.html**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git commit -m "added index.html"
[master (root-commit) 2158b53] added index.html
 Committer: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
```

**7.Make few changes in index.html & create a new file info.txt file.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ 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")

psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ touch info.txt
```

**8.check git status.You should find index.html & info.txt as untracked files.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git rm --cached index.html
rm 'index.html'

psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    index.html

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

**9.Configure GIT to ignore all txt files.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ touch .gitignore
```

**10.Again check the git status.you should find only index.html as untracked file.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ 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

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

no changes added to commit (use "git add" and/or "git commit -a")
```

**11.state & commit index.html**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git add index.html

psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git commit -m "added index.html"
[master c86876f] added index.html
 Committer: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 10 insertions(+)
```

**12.Log all your comments so far.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git log
commit c86876ff24696971b9b9070384a98da604a82c8c (HEAD -> master)
Author: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Date:   Thu Dec 1 20:24:20 2022 +0530

    added index.html

commit e6d4e87e31091a1e6441b25197b0603e9a8e911e
Author: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Date:   Thu Dec 1 16:10:21 2022 +0530

    added index.html
```

**13.Make some changes in index.html.**

```
<!DOCTYPE html>
<html>
<body>
<h1>This is heading</h1>
<p>This is<br>a paragraph<br>with line breaks.</p>



</body>
</html>
```

**14.Revert the change made in the previous step using git command.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git restore index.html
```

```
<!DOCTYPE html>
<html>
<body>
<p>This is<br>a paragraph<br>with line breaks.</p>


</body>
</html>
```

**15.Again change index.html.**

```
<!DOCTYPE html>
<html>
<body>
<p>This is<br>a paragraph<br>with line breaks.</p>
<p>This is another paragraph</p>


</body>
</html>
```

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ 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

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

no changes added to commit (use "git add" and/or "git commit -a")
```

This is
a paragraph
with line breaks.

This is another paragraph


**16.Stage index.html**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git add index.html
```

**17. Revert back the last stage.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        info.txt
```

**18.Rename 'add'command to 'my-add'**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add
```

**19.Using my_add command stage index.html again & commit the changes.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git my-add index.html

psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        info.txt
```

**20.Revert the last commit.**

```
psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git reset --soft HEAD^

psritula@inlen8520087979 MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        info.txt
```

**21.First take a backup of your assignments & projects.This is required because due to incorrect GIT operation you may lose your files.**

**22.Create an empty directory 'Assignments' & cd to 'Assignments'.**

```
psritula@inlen8520087979 MINGW64 ~
$ mkdir assignment

psritula@inlen8520087979 MINGW64 ~
$ cd assignment
```

**23.Create a file README.txt inside'Assignments'& write few lines about the contents of 'Assignments'folder.**

```
psritula@inlen8520087979 MINGW64 ~/assignment
$ touch readme.txt
```

**24.Commit README.txt file.**

```
psritula@inlen8520087979 MINGW64 ~/assignment
$ git init
Initialized empty Git repository in C:/Users/psritula/assignment/.git/

psritula@inlen8520087979 MINGW64 ~/assignment (master)
$ git add readme.txt

psritula@inlen8520087979 MINGW64 ~/assignment (master)
$ git commit -m "new text file"
[master (root-commit) 79de8d8] new text file
 Committer: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 readme.txt
```

**25.Now create a new branch 'html-assignments'**

```
psritula@inlen8520087979 MINGW64 ~/assignment (master)
$ git branch html-assignments
```

**26.Switch to 'html-assignments' branch**

```
psritula@inlen8520087979 MINGW64 ~/assignment (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'
```

**27.copy all HTML assignments inside 'Assignments' folder.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ touch readme1.txt

psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ touch readme2.txt
```

**28.Commit HTML assignments into 'html-assignments' branch.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ git add .

psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ git commit -m "commited"
[html-assignments ac26cec] commited
 Committer: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 2 files changed, 4 insertions(+)
 create mode 100644 readme1.txt
 create mode 100644 readme2.txt
```

**29.Make minor changes into few files belonging to 'html-assignments' branch.**

**30.Commit those changed files.**

**31.Switch to master branch.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ git checkout master
Switched to branch 'master'
```

**32.Make minor changes into README.txt file & commit those changes into master.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (master)
$ git commit -m 'change readme.txt'
[master 5e2daa0] change readme.txt
 Committer: Sri Tulasi Chandra Likhitha <pemmireddi.sri-tulasi-chandra-likhitha@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 2 files changed, 3 insertions(+)
 create mode 100644 readme1.txt
 create mode 100644 readme2.txt
```

**33.Again switch to 'html-assignments' branch.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'
```

**34. Make minor changes into few files belonging to 'html-assignments' branch.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ vi readmr1.file
```

**35. Commit those changes.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ git commit -m "committed some changes in readme1.txt
> /"
On branch html-assignments
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:   readme1.txt
        modified:   readme2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        readmr1.file

no changes added to commit (use "git add" and/or "git commit -a")
```

**36. Switch to master.**

```
psritula@inlen8520087979 MINGW64 ~/assignment (html-assignments)
$ git checkout master
Switched to branch 'master'
```

**37. Merge 'html-assignments' branch into master. Confirm all html assignments are shown in master.**

**38. Finally delete the 'html-assignments' branch.**