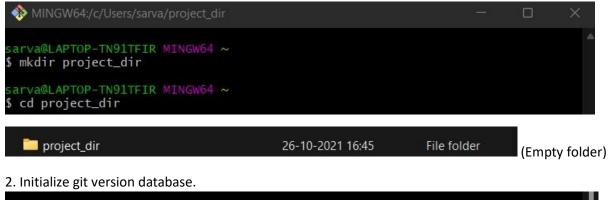
### Section-0

1. Create a directory 'project\_dir' & cd to 'project\_dir'.



```
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir
$ git init
Initialized empty Git repository in C:/Users/sarva/project_dir/.git/
```

3. Create a new file index.html.

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ touch index.html

| index | 26-10-2021 16:45 | HTML File | 0 KB
```

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

5. Stage the index.html file.

BEFORE STAGING WE NEED TO ADD GLOBAL EMAIL

git config --global user.email <a href="mailto:sarvade34@gmail.com">sarvade34@gmail.com</a>

#### 6. Commit index.html

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git commit -m 'first html file'
[master (root-commit) d59afc8] first html file
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

After changing some content in html file

```
sarva@LAPTOP-TN91TFIR 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")

 touch info.txt
 Date modified
 Type
 Size

 ☐ index
 26-10-2021 17:51
 HTML File
 1 KB

 ☐ info
 26-10-2021 17:52
 Text Document
 0 KB

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

```
sarva@LAPTOP-TN91TFIR 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)
        info.txt

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

9. Configure GIT to ignore all txt files.

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ touch gitignore
```

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

```
11. State & commit index.html
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
    $ git add index.html
    sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git commit -m "modified html"
[master 783b30c] committed index with <head>
1 file changed, 5 insertions(+)
12. Log all your comments so far.
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git log
commit 02eb2b704b97dd2dd8d50031b384c386cf6bd5e8 (HEAD -> master)
Author: sarvade nithin <sarvade34@gmail.com>
Date: Tue Oct 26 18:33:38 2021 +0530
     modified html
commit d59afc8ad188b1a67b0b700a61357ac087a47174
Author: sarvade nithin <sarvade34@gmail.com>
          Tue Oct 26 17:47:32 2021 +0530
     first html file
13. Make some changes in index.html.
   Changes has been done
14. Revert the change made in the previous step using git command.
 sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git checkout --
15.
    Again some changes in index.html
16. Stage index.html
 sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git add index.html
 sarva@LAPTOP-TN91TFIR 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
17. Revert back the last stage
 sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git restore --staged index.html
sarva@LAPTOP-TN91TFIR 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)
                          index.html
```

modified:

```
Untracked files:
   (use "git add <file>..." to include in what will be committed)
         .gitignore
no changes added to commit (use "git add" and/or "git commit -a")
18. Rename 'add' command to 'my-add'
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add
19. Using my_add command Stage index.html again & commit the changes
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git my-add index.html
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git commit -m "commited index.html acc to steps"
[master 30832b3] commited index.html acc to steps
1 file changed, 3 insertions(+)
sarva@LAPTOP-TN91TFIR MINGW64 ~/project_dir (master)
$ git status
On branch master
Untracked files:
   (use "git add <file>..." to include in what will be committed)
         .gitignore
nothing added to commit but untracked files present (use "git add" to track)
```

20. Revert the last commit.

# **Git branching**

```
SECTION-1:
22.
sarva@LAPTOP-TN91TFIR MINGW64 ~
$ mkdir Assingnments
sarva@LAPTOP-TN91TFIR MINGW64 ~
$ cd Assingnments
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments
$ touch README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments
Initialized empty Git repository in C:/Users/sarva/Assingnments/.git/
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git add .
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master) $ git commit -m "committed readme"
[master (root-commit) 6216998] committed readme
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git branch html-assignments
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'
27.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git status
On branch html-assignments
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git checkout -b html-assignment
Switched to a new branch 'html-assignment'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignment)
$ git checkout master -- README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignment)
$ git status
On branch html-assignment
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignment)
$ git commit -m 'adding README.txt to a new branch'
On branch html-assignment
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignment)
$ git status
On branch html-assignment
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:
                       README.txt
no changes added to commit (use "git add" and/or "git commit -a")
```

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignment)
$ git commit -m 'changes in README.txt
[html-assignments 6Y5698] changes in README.txt 1 file changed, 1 insertion(+)
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout master
Already on 'master'
           README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git status
On branch master
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        modified: README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git commit -m 'again modified README.txt in master branch'
[master 969e504] again modified README.txt in master branch
1 file changed, 1 insertion(+)
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git status
On branch html-assignments
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git status
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: README.txt
                            README.txt
no changes added to commit (use "git add" and/or "git commit -a")
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git status
On branch html-assignments
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
           modified: README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git commit -m 'made changes in second branch'
[html-assignments 1fccdf4] made changes in second branch
  1 file changed, 1 insertion(+)
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (html-assignments)
$ git checkout master
Switched to branch 'master'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git merge html-assignments
Auto-merging README.txt
CONFLICT (content): Merge conflict in README.txt
Automatic merge failed; fix conflicts and then commit the result.
```

```
File Edit Format View Help

<<<<< HEAD
fbfxxcb
======
cvcv
>>>>>> html-assignments
```

sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master|MERGING)
\$ git branch -D html-assignments
Deleted branch html-assignments (was 1fccdf4).

### **SECTION -2**

## (CSS assignment)

- 1. Create a new branch 'css-assignments'.
- 2. Switch to 'css-assignments' branch.
- 3. Copy all CSS assignments inside 'Assignments' folder.
- 4. Commit CSS assignments into 'css-assignments' branch.
- 5. Make minor changes into README.txt file on line 1 belonging to 'css-assignments' branch.
- 6. Commit those changed files.
- 7. Switch to master branch.
- 8. Make minor changes into README.txt file on line 3 & commit those changes into master.
- 9. Again switch to 'css-assignments' branch.
- 10. Make minor changes into few files belonging to 'css-assignments' branch.
- 11. Commit those changes.
- 12. Switch to master.
- 13. Merge 'css-assignments' branch into master. Confirm all css assignments are shown in master.
- 14. Finally delete the 'css-assignments' branch.

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git checkout -b css-assignments
fatal: A branch named 'css-assignments' already exists.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git checkout master README.txt
Updated 1 path from 3b52140
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
On branch css-assignments
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
On branch css-assignments
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
On branch css-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)
                       README.txt
no changes added to commit (use "git add" and/or "git commit -a")
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
```

```
On branch css-assignments
Changes to be committed:
   (use "git_restore --staged <file>..." to unstage)
           modified:
                            README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git commit -m '1st change in css branch'
[css-assignments 998f177] 1st change in css branch
1 file changed, 1 insertion(+), 1 deletion(-)
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ it checkout master
bash: it: command not found
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git checkout master
Switched to branch 'master'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git status
On branch master
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (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:
                            README.txt
no changes added to commit (use "git add" and/or "git commit -a")
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
           modified:
                            README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git commit -m '2nd change in master branch'
[master c50a723] 2nd change in master branch
1 file changed, 1 insertion(+), 1 deletion(-)
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout css-assignments
Switched to branch 'css-assignments'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
On branch css-assignments
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
On branch css-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:
                            README.txt
no changes added to commit (use "git add" and/or "git commit -a")
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git commit -m 'commiting readme from css branch'
[css-assignments f621c8c] commiting readme from css branch
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git status
On branch css-assignments
nothing to commit, working tree clean
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git branch
  css-assigments
* css-assignments
  css-assinments
  html-assignment
  master
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git diff master css-assignments
diff --git a/README.txt b/README.txt
index d9e7c6f..e440e5c 100644
--- a/README.txt
+++ b/README.txt
@@ -1 +1 @
-2nd change
+3
\ No newline at end of file
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git merge css-assignments
Already up to date.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (css-assignments)
$ git checkout master
Switched to branch 'master'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git branch -D css-assignments
Deleted branch css-assignments (was f621c8c).
```

# **SECTION-3**

### (JavaScript assignment)

- 1. Create a new branch 'js-assignments'.
- 2. Switch to 'js-assignments' branch.
- 3. Copy all JavaScript assignments inside 'Assignments' folder.
- 4. Commit JavaScript assignments into 'js-assignments' branch.
- 5. Make minor changes into README.txt file on line 1 belonging to 'js-assignments' branch.
- 6. Commit those changed files.
- 7. Switch to master branch.
- 8. Make minor changes into README.txt file on line 1 & commit those changes into master.
- 9. Again switch to 'js-assignments' branch.
- 10. Make minor changes into few files belonging to 'js-assignments' branch.
- 11. Commit those changes.
- 12. Switch to master.
- 13. Merge 'js-assignments' branch into master. Confirm all JavaScript assignments are shown in master.
- 14. Finally delete the 'js-assignments' branch.

```
1.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git branch js-assignment
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git branch
  js-assignment
* master
2.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout js-assignments
error: pathspec 'js-assignments' did not match any file(s) known to git
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout js-assignment
Switched to branch 'js-assignment'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ touch f1.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ touch f2.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git add f1.txt
```

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git add f2.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git commit -m "committed js"
[js-assignment 82a94c3] committed js
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
create mode 100644 f2.txt
Done some changes in README.txt that belongs to js-assignment branch
6.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git commit -m "changes in readme"
[js-assignment f898bfc] changes in readme
1 file changed, 1 deletion(-)
delete mode 100644 property
 delete mode 100644 README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git checkout master
Switched to branch 'master'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git branch
  js-assignment
* master
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git add README.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git commit -m "commited readme"
[master 189bf99] commited readme
1 file changed, 2 insertions(+), 1 deletion(-)
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git checkout js-assignment
Switched to branch 'js-assignment'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git branch
   is-assignment
  master
10.
  📕 f1 - Notepad
                                                                                               X
 File Edit Format View Help
 f1 changes
 f2 - Notepad
                                                                                               X
File Edit Format View Help
f2 changes
```

```
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git add f1.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git add f2.txt
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git commit -m "f1 and f2 commited"
[js-assignment 1d4fa0c] f1 and f2 commited
2 files changed, 2 insertions(+)
12.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (js-assignment)
$ git checkout master
Switched to branch 'master'
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git branch
js-assignment
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master) $ git merge js-assignment Already up to date.
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master)
$ git ls-files
README.txt
f1.txt
f2.txt
index.html
sarva@LAPTOP-TN91TFIR MINGW64 ~/Assingnments (master) $ git branch -d js-assignment Deleted branch js-assignment (was 1d4fa0c).
```