Install GIT & make sure it is added into PATH.

Section 0 -Use GIT as local VCS. Steps to follow:

- 1. Create a directory 'project_dir' & cd to 'project_dir'.
- 2. Initialize git version database. (git init)
- 3. Create a new file index.html.
- 4. Check the git status. You should find index.html as untracked file.
- 5. Stage the index.html file.
- 6. Commit index.html

MINGW64:/c/Users/pbagmare/project_dir ā X mkdir project_dir cd project_dir agmare@LIN24009753 MINGW64 ~/project_dir Initialized empty Git repository in C:/Users/pbagmare/project_dir/.git/ kgmare@LIN24009753 MINGW64 ~/project_dir (master) touch index.html agmare@LIN24009753 MINGW64 ~/project_dir (master) git status n branch master No commits yet (use "git add <file>..." to include in what will be committed) othing added to commit but untracked files present (use "git add" to track) gmare@LIN24009753 MINGW64 ~/project_dir (master) git add index.html bagmare@LIN24009753 MINGW64 ~/project_dir (master) [master (root-commit) ba4f024] index.html commited Committer: Bagmare <prathmesh.bagmare@capgemini.com> Your name and email address were configured automatically based n 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, 0 insertions(+), 0 deletions(-) create mode 100644 index.html agmare@LIN24009753 MINGW64 ~/project_dir (master)

- 7. Make few changes in index.html & create a new file info.txt file.
- 8. Check git status. You should find index.html & info.txt as untracked files.
- 9. Configure GIT to ignore all txt files.
- 10. Again check the git status. You should find only index.html as untracked file.
- 11. State & commit index.html

```
24009753 MINGW64 ~/project_dir (master)
 touch info.txt
  agmare@LIN24009753 MINGW64 ~/project_dir (master)
git status
 n 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)
 ntracked 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")
  agmare@LIN24009753 MINGW64 ~/project_dir (master)
$ touch .gitignore
   agmare@LIN24009753 MINGW64 ~/project_dir (master)
git status
n 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)
Intracked 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")
   agmare@LIN24009753 MINGW64 ~/project_dir (master)
 git add index.html
   gmare@LIN24009753 MINGW64 ~/project_dir (master)
$ git commit -m "update index.html with html tags"
[master 2d2e7ac] update index.html with html tags
Committer: Bagmare <prathmesh.bagmare@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
```

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MINGW64:/c/Users/pbagmare/project dir

- 12. Log all your comments so far.
- 13. Make some changes in index.html.
- 14. Revert the change made in the previous step using git command.
- 15. Again change index.html.
- 16. Stage index.html
- 17. Revert back the last stage.
- 18. Rename 'add' command to 'my-add'.
- 19. Using my_add command Stage index.html again & commit the changes.

```
bagmare@LIN24009753 MINGW64 ~/project_dir (master)
 git log
commit 2d2e7ac613f934be164016bad4856a61e58c2eae (HEAD -> master)
Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 10:10:18 2022 +0530
   update index.html with html tags
commit ba4f024fb9049e26f7d56a518aad1ac8e27092fe
Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 09:43:44 2022 +0530
   index.html commited
 pagmare@LIN24009753 MINGW64 ~/project_dir (master)
 git checkout -- .
 bagmare@LIN24009753 MINGW64 ~/project_dir (master)
 git add index.html
 pagmare@LIN24009753 MINGW64 ~/project_dir (master)
 git restore --staged index.html
 pagmare@LIN24009753 MINGW64 ~/project_dir (master)
 git config alias.my-add add
 bagmare@LIN24009753 MINGW64 ~/project_dir (master)
 git my-add index.html
```

- 19. Using my_add command Stage index.html again & commit the changes.
- 20. Revert the last commit.

```
pbagmare@LIN24009753 MINGW64 ~/project_dir (master)
$ git commit -m "staged using my-add and commited"
[master c28224a] staged using my-add and commited
   Committer: Bagmare prathmesh.bagmare@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, 1 insertion(+)
```

MINGW64:/c/Users/pbagmare/project_dir

```
e@LIN24009753 MINGW64 ~/project_dir (master)
  ommit c28224af0e31032530b5742c38475bf487f9c7db (HEAD -> master)
Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 10:43:48 2022 +0530
   staged using my-add and committed
  ommit 2d2e7ac613f934be164016bad4856a61e58c2eae
Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 10:10:18 2022 +0530
   update index.html with html tags
  ommit ba4f024fb9049e26f7d56a518aad1ac8e27092fe
Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 09:43:44 2022 +0530
   index.html commited
  agmare@LIN24009753 MINGW64 ~/project_dir (master)
 git reset --soft HEAD~1
 bagmare@LIN24009753 MINGW64 ~/project_dir (master)
  mmit 2d2e7ac613f934be164016bad4856a61e58c2eae (HEAD -> master)
 Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 10:10:18 2022 +0530
   update index.html with html tags
  mmit ba4f024fb9049e26f7d56a518aad1ac8e27092fe
Author: Bagmare <prathmesh.bagmare@capgemini.com>
Date: Sat Jan 15 09:43:44 2022 +0530
    index.html commited
```