**Install git, if not installed already.**

Download link: <https://git-scm.com/downloads>

**Configure git on desktop, if not done already.**

1. Open command prompt.
2. Use the following commands:

*git config --global user.name "[name]"*

*git config --global user.email "[email address]"*

(Use your name instead of “[name]” and the email address used to signup for github instead of “[email address]”)

**Working with the project**

1. Create a new folder called “Career-Information-and-Recruitment-Portal” (without double quotes) at any preferred location in your pc.
2. cd to this folder OR

shift + right click and open PowerShell window (or command prompt) from that directory.

1. Initialize this folder as a git repo using the command:

*git init*

1. **Adding remote origin:**

Use the following command to connect to the online git repo and sync it to your pc.

*git remote add origin [url]*

Instead of [url], use the url for our project repo: <https://github.com/jincy-p-janardhanan/Career-Information-and-Recruitment-Portal.git>

NB: Steps 1 to 4 has to be done only once throughout working with the project.

1. **Using your own branch for working with the project:**

* Create and switch working to a new branch using this command:

*git checkout -b [branch-name]*

Instead of branch-name, provide any descriptive name for your branch.

(This command creates a new branch if it does not exist and switches to it immediately. Alternatively, you can use the following commands to create and switch to the branch.

*git branch [branch-name]*

*git checkout [branch-name]*

Note: the checkout command can be used to switch to any existing branch also.)

* Check on which branch you are currently working using the command:

*git status*

This command also helps to find files that have changes which are not committed.

(Always do this before working with your directory and committing files.)

1. Work on the project. While working, use the following commands to stage files and commit.

* **Staging files:**
  + To stage all files (means all files will be updated and made ready to commit to the current branch.) –

*git add .*

* + To stage only specific files (only the specified file will be updated and made ready to commit to the current branch) –

*git add [filename]*

* **Committing changes:**

*git commit -m “descriptive message about the changes”*

Inside the double quotes briefly mention the changes made to the files.

(The commit command helps to save the current state of the committed file. To make the commit available online on the branch, you have to push it.)

* Checking log (to view all commits to the current branch) –

*git log --oneline*

(This command lists all commits to the current branch with their names and message.)

Or, you can use this command -

*git log*

(This gives a very detailed description of all commits to the current branch.)

* **Pushing changes:**

*git push -u origin [branch-name]*

Use this command to push changes to the current branch.

(The push command uploads all changes to the current branch.)

* **After making all changes required** (you may commit many times during the process), **create a pull request** by logging into <github.com>.

(Detailed steps are available [here](https://docs.github.com/en/github/collaborating-with-issues-and-pull-requests/creating-a-pull-request).)

Please don’t use git pull from command line because it merges all changes to the master branch, before anyone can review it.

**OTHER USEFUL COMMANDS**

* To view all branches-

*git branch --all*

* To undo a commit –

*git reset [commit]*

This command undoes all commits after the specified commit. In place of [commit], use the id of the commit until which you have to undo changes. Commit id will be something like “2a98055”, it is the number generated when you do a commit on any branch. You can see it in the output after the commit command. You can also use the command -

*git log --oneline*

to find commit ids.

**QUICK REFERENCES**

* [GitHub Cheat Sheet](https://github.github.com/training-kit/downloads/github-git-cheat-sheet/)