

# Github Project: Git Commands

## Documentation Template

### Programming for Data Science Nanodegree Program

You will use this template to copy and paste the git commands you used to complete all tasks on your local and remote git repository for this project. This file will serve as your submission for the GitHub project.

#### Instructions:

1. Make a copy of this Git Commands Documentation template on your Google Drive.
2. Complete the four sections in this document with the appropriate git commands.
3. Download this document as a PDF file.
4. Submit this on the Project Submission page within the Udacity Classroom.

# 1. Set Up Your Repository

The following are the steps you will take to create your git repository, add your python code, and post your files on GitHub.

Step 1. Create a GitHub profile (if you don't already have one).

Step 2. Fork a repository from Udacity's [GitHub Project repository](https://github.com/aseman2022/pdsnd_github) and provide a link to your forked GitHub repository here:

GitHub Repository Link
< <a href="https://github.com/aseman2022/pdsnd_github">https://github.com/aseman2022/pdsnd_github</a> >

Step 3. Complete the tasks outlined in the table below and copy and paste your git commands into the "Git Commands" column. The first git command is partially filled out for you.

	Tasks	Git Commands
A.	Clone the GitHub repository to your local repository.	git clone < <a href="https://github.com/aseman2022/pdsnd_github">https://github.com/aseman2022/pdsnd_github</a> >
B.	Move your bikeshare.py and data files into your local repository.	<b>No git command needed (you can use <a href="#">cp</a> or a GUI) - Done ( data files exceed more than 25MB and can not be uploaded)</b>
C.	Create a .gitignore file containing the name of your data file.	<b>No git command needed (you can use <a href="#">touch</a> or a GUI) - Done</b>
D.	List the file names associated with the data files you added to your .gitignore	<b>No git command needed (add the file names into your .gitignore file) - Done</b>
E.	Check the status of your files to make sure your files are not being tracked	C:\Users\vicwseq\pdsnd_github>git status On branch master Your branch and 'origin/master' have diverged,

		<p>and have 1 and 12 different commits each, respectively. (use "git pull" to merge the remote branch into yours)</p> <p>Changes to be committed: (use "git restore --staged &lt;file&gt;..." to unstage) modified: bikeshare_2.py deleted: datasets/chicago.csv deleted: datasets/new_york_city.csv deleted: datasets/washington.csv</p> <p>Changes not staged for commit: (use "git add &lt;file&gt;..." to update what will be committed) (use "git restore &lt;file&gt;..." to discard changes in working directory) modified: bikeshare_2.py</p>
F.	Stage your changes.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git add C:\Users\vicwseq\pdsnd_github</pre> <p>And</p> <pre>C:\Users\vicwseq\pdsnd_github&gt;git add C:\Users\vicwseq\pdsnd_github\dat asets</pre> <p>warning: LF will be replaced by CRLF in datasets/chicago.csv. The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in datasets/new_york_city.csv. The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in datasets/washington.csv.</p>

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		<p>The file will have its original line endings in your working directory</p> <pre>C:\Users\vicwseq\pdsnd_github&gt;git status</pre> <p>On branch master Your branch and 'origin/master' have diverged, and have 1 and 12 different commits each, respectively. (use "git pull" to merge the remote branch into yours)</p> <p>Changes to be committed: (use "git restore --staged &lt;file&gt;..." to unstage) modified: bikeshare_2.py</p>
G.	Commit your changes with a descriptive message.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git commit --amend -m "New commit message"</pre> <pre>C:\Users\vicwseq\pdsnd_github&gt;git commit --amend -m "New commit message"</pre> <p>[master 54daf9c] New commit message Date: Tue Mar 8 13:07:03 2022 +1100 4 files changed, 900035 insertions(+), 8 deletions(-) create mode 100644 datasets/chicago.csv create mode 100644 datasets/new_york_city.csv create mode 100644 datasets/washington.csv</p> <p><b>git commit -m " files changed"</b> <b>git commit -m " information added in README"</b> <b>git commit -m "gitignore modified"</b> <b>git commit -m "Code modified"</b></p>

H.	Push your commit to your remote repository.	Remote Repository configuration: C:\Users\vicwseq\pdsnd_github>git remote add pdsnd_github <a href="https://github.com/aseman2022/pdsnd_github">https://github.com/aseman2022/pdsnd_github</a>  C:\Users\vicwseq\pdsnd_github>git push pdsnd_github master
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## 2. Improve Documentation

Now you will be working in your local repository, on the BikeShare python file and the README.md file. You should repeat steps **C** through **E** three times to make at least three commits as you work on your documentation improvements.

	Tasks	Git Commands
A.	Create a branch named <i>documentation</i> on your local repository.	C:\Users\vicwseq\pdsnd_github>git branch * master  C:\Users\vicwseq\pdsnd_github>git checkout documentation Already on 'documentation'  C:\Users\vicwseq\pdsnd_github>git checkout -b documentation fatal: a branch named 'documentation' already exists  C:\Users\vicwseq\pdsnd_github>git branch * documentation master  C:\Users\vicwseq\pdsnd_github>git checkout master Switched to branch 'master' Your branch and 'origin/master' have diverged, and have 1 and 12 different

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		commits each, respectively. (use "git pull" to merge the remote branch into yours)
B.	Switch to the <i>documentation</i> branch.	C:\Users\vicwseq\pdsnd_github>git checkout documentation Switched to branch 'documentation'
C.	Update your README.md file.	<b>No git command needed (edit the text in your README.md file)</b>
D.	Stage your changes.	C:\Users\vicwseq\pdsnd_github>git add C:\Users\vicwseq\pdsnd_github\datasets
E.	Commit your work with a descriptive message.	C:\Users\vicwseq\pdsnd_github>git commit --amend -m "New commit message [documentation 8b0af61] New commit message Date: Tue Mar 8 13:07:03 2022 +1100 4 files changed, 900035 insertions(+), 8 deletions(-) create mode 100644 datasets/chicago.csv create mode 100644 datasets/new_york_city.csv create mode 100644 datasets/washington.csv  <b>git commit -m " files changed"</b> <b>git commit -m " information added in README"</b> <b>git commit -m "gitignore modified"</b> <b>git commit -m "Code modified"</b>
F.	Push your commit to your remote repository branch.	C:\Users\vicwseq\pdsnd_github>git push pdsnd_github master

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G.	Switch back to the master branch.	C:\Users\vicwseq\pdsnd_github>git checkout master Switched to branch 'master' Your branch and 'origin/master' have diverged,
		and have 1 and 12 different commits each, respectively. (use "git pull" to merge the remote branch into yours)

### 3. Additional Changes to Documentation

In a real world situation, you or other members of your team would likely be making other changes to documentation on the documentation branch. To simulate this follow the tasks below.

	Tasks	Git Commands
A.	Switch to the <i>documentation</i> branch.	C:\Users\vicwseq\pdsnd_github>git checkout documentation Switched to branch 'documentation'

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B.	Make at least 2 additional changes to the documentation - this might be additional changes to the README or changes to the document strings and line comments of the bikeshare file.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git commit --amend -m "New commit message [documentation 09b24c8] New commit message Date: Tue Mar 8 13:07:03 2022 +1100 4 files changed, 900035 insertions(+), 8 deletions(-) create mode 100644 datasets/chicago.csv create mode 100644 datasets/new_york_city.csv create mode 100644 datasets/washington.csv  C:\Users\vicwseq\pdsnd_github&gt;git commit -am "By typing this command I am saving a collection of saved files." On branch documentation Untracked files: (use "git add &lt;file&gt;..." to include in</pre>
		<pre>what will be committed) git  nothing added to commit but untracked files present (use "git add" to track)</pre>

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C.	After each change, stage and commit your changes. When you commit your work, you should use a descriptive message of the changes made. Your changes should be small and aligned with your commit message.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git add C:\Users\vicwseq\pdsnd_github\dat aset</pre> <pre>C:\Users\vicwseq\pdsnd_github&gt;git commit --amend -m "New commit message [documentation 722f1a7] New commit message Date: Tue Mar 8 13:07:03 2022 +1100 4 files changed, 900035 insertions(+), 8 deletions(-) create mode 100644 datasets/chicago.csv create mode 100644 datasets/new_york_city.csv create mode 100644 datasets/washington.csv</pre> <p><b>git commit -m " files changed"</b>  <b>git commit -m " information added in README"</b>  <b>git commit -m "gitignore modified"</b>  <b>git commit -m "Code modified"</b></p>
D.	Push your changes to the remote repository branch.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git push pdsnd_github master</pre>
E.	Switch back to the <i>master</i> branch.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git checkout master Switched to branch 'master' Your branch and 'origin/master' have diverged, and have 1 and 12 different commits each, respectively. (use "git pull" to merge the remote branch into yours)</pre>

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F.	Check the local repository log to see how <i>all the branches</i> have changed.	<p>C:\Users\vicwseq\pdsnd_github&gt;git log</p> <p>master commit</p> <p>54daf9c4192b83afa60c8ffb83dbefc 0d652f73b (HEAD -&gt; master)</p> <p>Author: Aseman Zonouzi &lt;aseman.x.zonouzi@ecodev.vic.gov.au&gt;</p> <p>Date: Tue Mar 8 13:07:03 2022 +1100</p> <p>New commit message</p> <p>commit</p> <p>601daed5d230c600a63e6b73dea09 82f4162a66d</p> <p>Author: azonouzi2022 &lt;101040541+azonouzi2022@users.noreply.github.com&gt;</p> <p>Date: Mon Mar 7 15:57:30 2022 +1100</p> <p>Add files via upload</p> <p>commit</p> <p>06513a5926d1e1f8cd62048daf0baf f8541dc276</p> <p>Author: SudKul &lt;48475411+SudKul@users.noreply.github.com&gt;</p> <p>Date: Wed May 5 12:03:52 2021 +0530</p> <p>Update manual.yml</p> <p>commit</p> <p>6b288e47e4eb44fd3c2a59d237da5 4fc08574d7b</p> <p>Author: SudKul &lt;48475411+SudKul@users.noreply.github.com&gt;</p>
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		<p>Date: Mon May 3 14:55:17 2021 +0530</p> <p>Create .gitignore</p> <p>commit f7d8fb10e1ce33cd9cf468fafa41070 027f9573c Author: SudKul &lt;48475411+SudKul@users.noreply. github.com&gt; Date: Mon May 3 14:54:56 2021 +0530</p> <p>Create manual.yml :</p>
G.	Go to Github. Notice that you now have two branches available for your project, and when you change branches the README changes.	<p>No git command needed - C:\Users\vicwseq\pdsnd_github&gt;git branch documentation * master</p>

## 4. Refactor Code

Now you will be working in your local repository, on the code in your BikeShare python file to make improvements to its efficiency and readability. You should repeat steps **C** through **E** three times to make at least three commits as you refactor.

	Tasks	Git Commands
A.	Create a branch named <i>refactoring</i> on your local repository.	C:\Users\vicwseq\pdsnd_github>git checkout -b refactoring Switched to a new branch 'refactoring'

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B.	Switch to the <i>refactoring</i> branch.	C:\Users\vicwseq\pdsnd_github>git checkout refactoring Already on 'refactoring'
C.	Similar to the process you used in making the documentation changes, make 2 or more changes in refactoring your code.	<b>No git command needed (edit the code in your python file)</b>
D.	<i>For each change</i> , stage and commit your work with a descriptive message of the changes made.	C:\Users\vicwseq\pdsnd_github>git commit --amend -m "New commit message [refactoring 7fbe857] New commit message Date: Tue Mar 8 13:07:03 2022 +1100 4 files changed, 900035 insertions(+), 8 deletions(-) create mode 100644 datasets/chicago.csv create mode 100644 datasets/new_york_city.csv create mode 100644 datasets/washington.csv  <b>git commit -m " files changed"</b> <b>git commit -m " information added in README"</b> <b>git commit -m "gitignore modified"</b> <b>git commit -m "Code modified"</b>

	Tasks	Git Commands
E.	Push your commits to your remote repository branch.	C:\Users\vicwseq\pdsnd_github>git push pdsnd_github master
F.	Switch back to the <i>master</i> branch.	C:\Users\vicwseq\pdsnd_github>git checkout master

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G.	Check the local repository log to see how <i>all the branches</i> have changed.	<pre>C:\Users\vicwseq\pdsnd_github&gt;git log master commit 54daf9c4192b83afa60c8ffb83dbefc 0d652f73b (HEAD -&gt; master) Author: Aseman Zonouzi &lt;aseman.x.zonouzi@ecodev.vic.gov.au&gt; Date: Tue Mar 8 13:07:03 2022 +1100  New commit message  commit 601daed5d230c600a63e6b73dea09 82f4162a66d Author: azonouzi2022 &lt;101040541+azonouzi2022@users.noreply.github.com&gt; Date: Mon Mar 7 15:57:30 2022 +1100  Add files via upload  commit 06513a5926d1e1f8cd62048daf0baf f8541dc276 Author: SudKul &lt;48475411+SudKul@users.noreply.github.com&gt; Date: Wed May 5 12:03:52 2021 +0530  Update manual.yml</pre>
	<b>Tasks</b>	<b>Git Commands</b>

		<p>commit 6b288e47e4eb44fd3c2a59d237da54fc08574d7b Author: SudKul &lt;48475411+SudKul@users.noreply.github.com&gt; Date: Mon May 3 14:55:17 2021 +0530</p> <p>Create .gitignore</p> <p>commit f7d8fb10e1ce33cd9cf468fafa41070027f9573c Author: SudKul &lt;48475411+SudKul@users.noreply.github.com&gt; Date: Mon May 3 14:54:56 2021 +0530</p> <p>Create manual.yml</p>
H.	Go to GitHub. Notice that you now have 3 branches. Notice how the files change as you move through the branches.	<p><b>No git command needed</b></p> <p>C:\Users\vicwseq\pdsnd_github&gt;git branch documentation * master refactoring</p>

## 5. Merge Branches

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A.	Switch to the <i>master</i> branch.	C:\Users\vicwseq\pdsnd_github>git checkout master C:\Users\vicwseq\pdsnd_github>git checkout master Already on 'master' Your branch and 'origin/master' have diverged, and have 1 and 12 different commits each, respectively. (use "git pull" to merge the remote branch into yours)
B.	Pull the changes you and your coworkers might have made in the passing days (in this case, you won't have any updates, but pulling changes is often the first thing you do each day).	C:\Users\vicwseq\pdsnd_github>C:\Users\vicwseq\pdsnd_github>git pull
C.	Since your changes are all ready to go, merge all the branches into the master. Address any merge conflicts. If you split up your work among your branches correctly, you should have no merge conflicts.	C:\Users\vicwseq\pdsnd_github>git branch documentation * master refactoring  C:\Users\vicwseq\pdsnd_github>git merge documentation Merge made by the 'ort' strategy.
D.	You should see a message that shows the changes to the files, insertions, and deletions.	<b>No git command needed</b>
E.	Push the repository to your remote repository.	C:\Users\vicwseq\pdsnd_github>git push pdsnd_github master
F.	Go to GitHub. Notice that your master branch has all of the changes.	<b>No git command needed</b>

## Submission:

This concludes the project.

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- Please review this document to make sure you entered all the required response fields in all four sections.
- Download this document as a PDF file.
- Submit the PDF file on the Project Submission page within the Udacity Classroom.