Lab 1 - Software Project Management (2020/1/15)
Daniel Silva - 100679066

● Create a Git repository using the cheat-sheet commands

```
dan@juli:~$ git init
Reinitialized existing Git repository in /home/dan/.git/
dan@juli:~$ git config --global user.name
Daniel Silva
dan@juli:~$ git config --global user.email
silvadan@netc.fr
dan@juli:~$
```

● Edit "Student" file to include your own Student Name & Student ID

```
dan@juli:~$ touch Students.txt
```

```
dan@juli:~$ vi Students.txt
dan@juli:~$ cat Students.txt
Daniel Silva
100679066
dan@juli:~$
```

● Commit changes

```
dan@juli:~$ git push -u
Username for 'https://github.com': thedansilva
Password for 'https://thedansilva@github.com':
Branch 'master' set up to track remote branch 'master' from 'origin'.
Everything up-to-date
dan@juli:~$
```

● Create IgnoreExample.txt
● Edit content of IgnoreExample.txt
● Use git status and screenshot the outcome
● Commit changes

```
dan@juli:~$ touch IgnoreExample.txt
dan@juli:~$ git add IgnoreExample.txt
dan@juli:~$ git push -u
Branch 'master' set up to track remote branch 'master' from 'origin'.
Everything up-to-date
dan@juli:~$ git commit -m "adding ignoreexample"
[master c3b7ef4] adding ignoreexample
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 IgnoreExample.txt
```

● Add IgnoreExample.txt to .gitignore file

```
dan@juli:~$ git config --global core.excludesfile .gitignore
```

● Edit content of IgnoreExample.txt
● Use git status and screenshot the outcome

```
dan@juli:~$ vi .gitignore
dan@juli:~$ git push
Everything up-to-date
dan@juli:~$ git commit -m "ignoring IgnoreExample"
```

```
dan@juli:~$ vi IgnoreExample.txt
dan@juli:~$ cat IgnoreExample.txt
Editing IgnoreExample
dan@juli:~$ git status
warning: could not open directory '.gvfs/': Permission denied
warning: could not open directory '.dbus/': Permission denied
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   IgnoreExample.txt
```

● Create a new branch using git branch
● Switch to new branch

```
dan@juli:~$ git branch newBranch
dan@juli:~$ git branch -a
* master
  newBranch
  remotes/origin/master
dan@juli:~$ git checkout newBranch
M       IgnoreExample.txt
Switched to branch 'newBranch'
```

● Edit BranchExample.txt (create this if not present) via notepad
● Use git add for update branch example, commit and use notepad command again

```
dan@juli:~$ touch BranchExample.txt
dan@juli:~$ git add BranchExample.txt
```

```
dan@juli:~$ git push --set-upstream origin newBranch
Counting objects: 2, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 240 bytes | 240.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'newBranch' on GitHub by visiting:
remote:        https://github.com/SPM-OT/lab-1-thedansilva/pull/new/newBranch
remote:
To https://github.com/SPM-OT/lab-1-thedansilva.git
 * [new branch]      newBranch -> newBranch
Branch 'newBranch' set up to track remote branch 'newBranch' from 'origin'.
dan@juli:~$ git push
Everything up-to-date
```

Your recently pushed branches:

 ⎇ **newBranch** (less than a minute ago)   ⧉ Compare & pull request

Default branch			
master Updated 4 minutes ago by thedansilva		Default	

Your branches			
newBranch Updated 1 minute ago by thedansilva	0|1	New pull request	🗑

● Switch back to master branch

```
dan@juli:~$ git checkout master
M       IgnoreExample.txt
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
dan@juli:~$ touch MasterExample.txt
dan@juli:~$ git push
Everything up-to-date
```

```
dan@juli:~$ touch RemoveExample.txt
dan@juli:~$ git add RemoveExample.txt
dan@juli:~$ git commit -m "adding removeexample"
[master 4528bfa] adding removeexample
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 RemoveExample.txt
dan@juli:~$ git push
Counting objects: 2, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 231 bytes | 231.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/SPM-OT/lab-1-thedansilva.git
   c3b7ef4..4528bfa  master -> master
dan@juli:~$
```

● Remove RemoveExample.txt (create one first if not present)
● Commit
● Use git status and screenshot outcome

```
dan@juli:~$ git rm --cached RemoveExample.txt
rm 'RemoveExample.txt'
dan@juli:~$ git commit -m "removing RemoveExample.txt"
[master 8448d9b] removing RemoveExample.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 RemoveExample.txt
dan@juli:~$ git push
Counting objects: 2, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 232 bytes | 232.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/SPM-OT/lab-1-thedansilva.git
   4528bfa..8448d9b  master -> master
dan@juli:~$
```

```
dan@juli:~$ git status
warning: could not open directory '.gvfs/': Permission denied
warning: could not open directory '.dbus/': Permission denied
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   IgnoreExample.txt
```

● Use clean command to remove file completely

```
dan@juli:~$ git clean -n
Would remove .ICEauthority
Would remove .Xauthority
Would remove .bash_history
Would remove .bash_logout
Would remove .bashrc
Would remove .dmrc
Would remove .git-credentials
Would remove .gitconfig
Would remove .lesshst
Would remove .problem1.java.swp
Would remove .profile
Would remove .recently-used
Would remove  sudo as admin successful
```

● Use git status and screenshot outcome

```
dan@juli:~$ git status
warning: could not open directory '.gvfs/': Permission denied
warning: could not open directory '.dbus/': Permission denied
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   IgnoreExample.txt

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

        .ICEauthority
        .Xauthority
        .bash_history
        .bash_logout
        .bashrc
        .byobu/
        .cache/
        .config/
        .dmrc
        .gimp-2.8/
        .git-credentials
        .gitconfig
```

- Use git add to add your word document with the screenshots to the repository
- Commit

```
dan@juli:~$ git add Screenshots.pdf
dan@juli:~$ git commit -m "adding Screenshots.pdf"
[master 5967a97] adding Screenshots.pdf
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Screenshots.pdf
dan@juli:~$ git push
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 348.59 KiB | 5.36 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/SPM-OT/lab-1-thedansilva.git
   8448d9b..5967a97  master -> master
dan@juli:~$
```

FINAL RESULTS:

Your recently pushed branches:

newBranch (about 1 hour ago)   **Compare & pull request**

| Branch: master ▾ | New pull request | | | Create new file | Upload files | Find file | Clone or download ▾ |

thedansilva Updating Screenshots.pdf to be more easily readable to the TA   Latest commit ce4183a 3 minutes ago

📄 .gitignore	adding .gitignore	14 minutes ago
📄 Screenshots.pdf	Updating Screenshots.pdf to be more easily readable to the TA	3 minutes ago
📄 Students.txt	adding students.txt	1 hour ago

Help people interested in this repository understand your project by adding a README.   **Add a README**