Problema No.1

Determine si un número es primo

Diagrama de Flujo

```
                    ┌─────────────┐
                    │   Inicio    │
                    └─────────────┘
                           │
                    ┌─────────────┐
                    │  Declarar   │
                    │ variable a=0│
                    └─────────────┘
                           │
                    ┌─────────────┐
                    │  Ingrese un │
                    │ numero "a"  │
                    └─────────────┘
                           │
   ┌──────────┐   True  ◇─────◇
   │Numero no │◄────────│ a≤0 │
   │ admitido │         ◇─────◇
   └──────────┘            │
                          False
                        ◇─────◇   True   ┌──────────────────┐
                        │ a=1 │─────────►│ Mostrar "a" No es│
                        ◇─────◇          │  Numero Primo.   │
                           │             └──────────────────┘
                         False
                    ◇───────────◇  True   ┌──────────────────┐
                    │ a = 2 o a=3 o│──────►│ Mostrar "a" es un│
                    │ a=5 o a=7    │       │  Numero Primo.   │
                    ◇───────────◇          └──────────────────┘
                           │
                         False
                    ◇───────────◇  True   ┌──────────────────┐
                    │  a%2=0 o   │────────►│ Mostrar "a" No es│
                    │  a%3=0 o   │         │  Numero Primo.   │
                    │  a%5=0 o   │         └──────────────────┘
                    │  a%7=0     │
                    ◇───────────◇
                           │
                         False
                    ┌──────────────────┐
                    │ Mostrar "a" es un│
                    │  Numero Primo.   │
                    └──────────────────┘
                           │
                    ┌─────────────┐
                    │     Fin     │
                    └─────────────┘
```
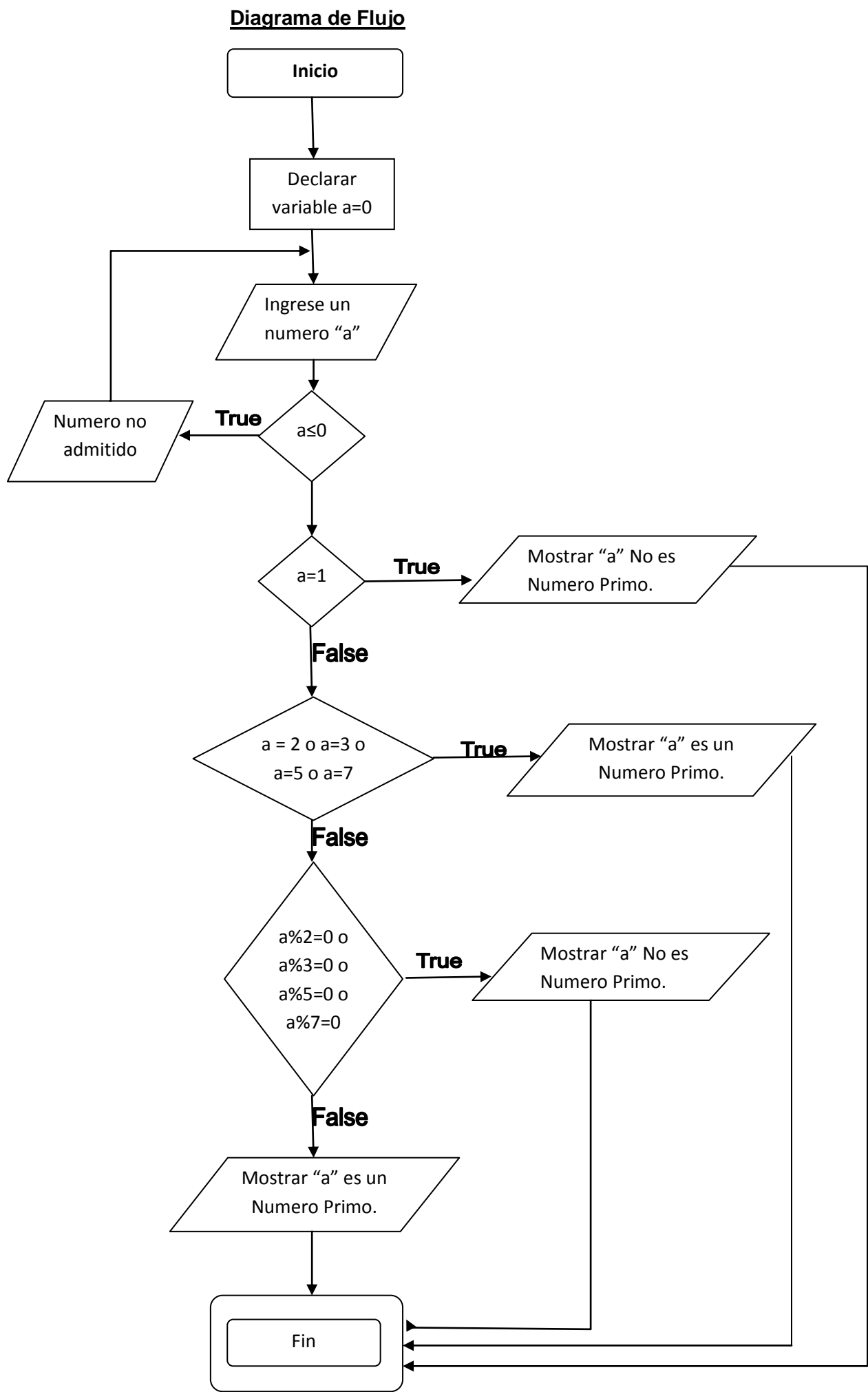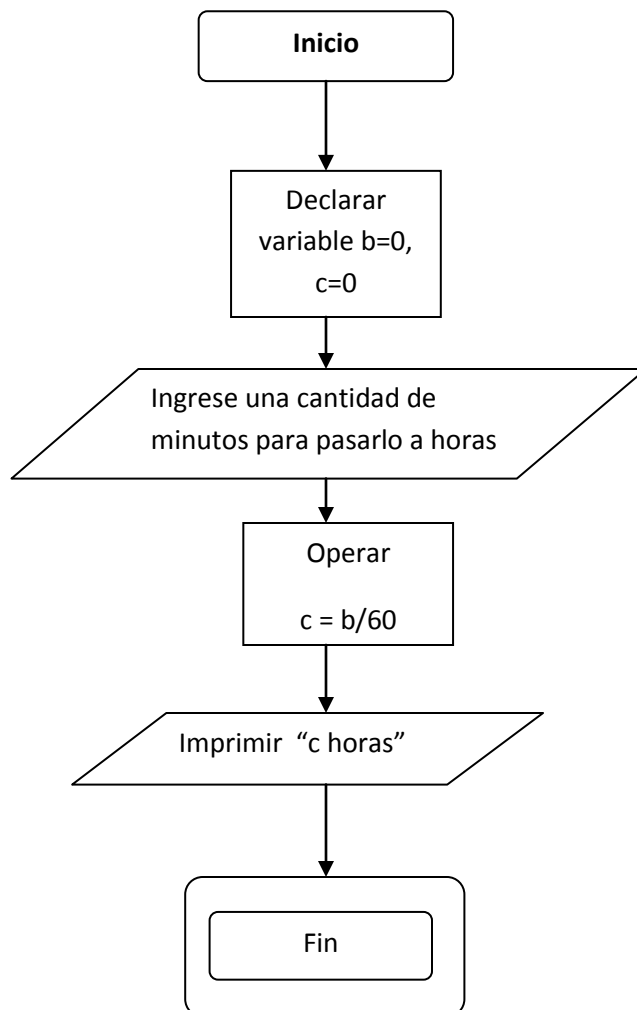
Pseudocódigo

1. Definir e iniciar int a=0

2. Solicitar un número y almacenarlo en a

3. Si a≤0

   3.1 Imprimir "Numero no admitido"

   3.2 Retornar a 2.

4. De lo contrario si a=1

   4.1 Imprimir "a no es numero primo"

   4.2 Salir

5. De lo contrario si a=2 o a=3 o a=5 o a=7

   5.1 Imprimir "a es un numero primo"

   5.2 Salir

6. De lo contrario si a%2=0 o a%3=0 o a%5=0 o a%7=0

   6.1 Imprimir "a no es numero primo"

   6.2 Salir

7. De lo contrario

   7.1 Imprimir "a es numero primo"

8. Salir

Problema No. 2

Convertir un valor dado en minutos a horas

Diagrama de Flujo

```
                    ┌──────────────┐
                    │    Inicio    │
                    └──────────────┘
                            │
                            ▼
                    ┌──────────────┐
                    │   Declarar   │
                    │  variable b=0,│
                    │      c=0     │
                    └──────────────┘
                            │
                            ▼
              ╱─────────────────────────╲
             ╱  Ingrese una cantidad de  ╲
            ╱ minutos para pasarlo a horas ╲
           ╱───────────────────────────────╱
                            │
                            ▼
                    ┌──────────────┐
                    │    Operar    │
                    │   c = b/60   │
                    └──────────────┘
                            │
                            ▼
              ╱─────────────────────────╲
             ╱    Imprimir  "c horas"    ╲
            ╱─────────────────────────────╱
                            │
                            ▼
                 ┌────────────────────┐
                 │    ┌──────────┐    │
                 │    │   Fin    │    │
                 │    └──────────┘    │
                 └────────────────────┘
```

Pseudocódigo

1. Declarar e iniciar variable b,c con 0
2. Solicitar un numero y almacenarlo en b
3. Operar c=b/60
4. Imprimir "c horas"
5. Fin

Tutorial Introducción a GitHub
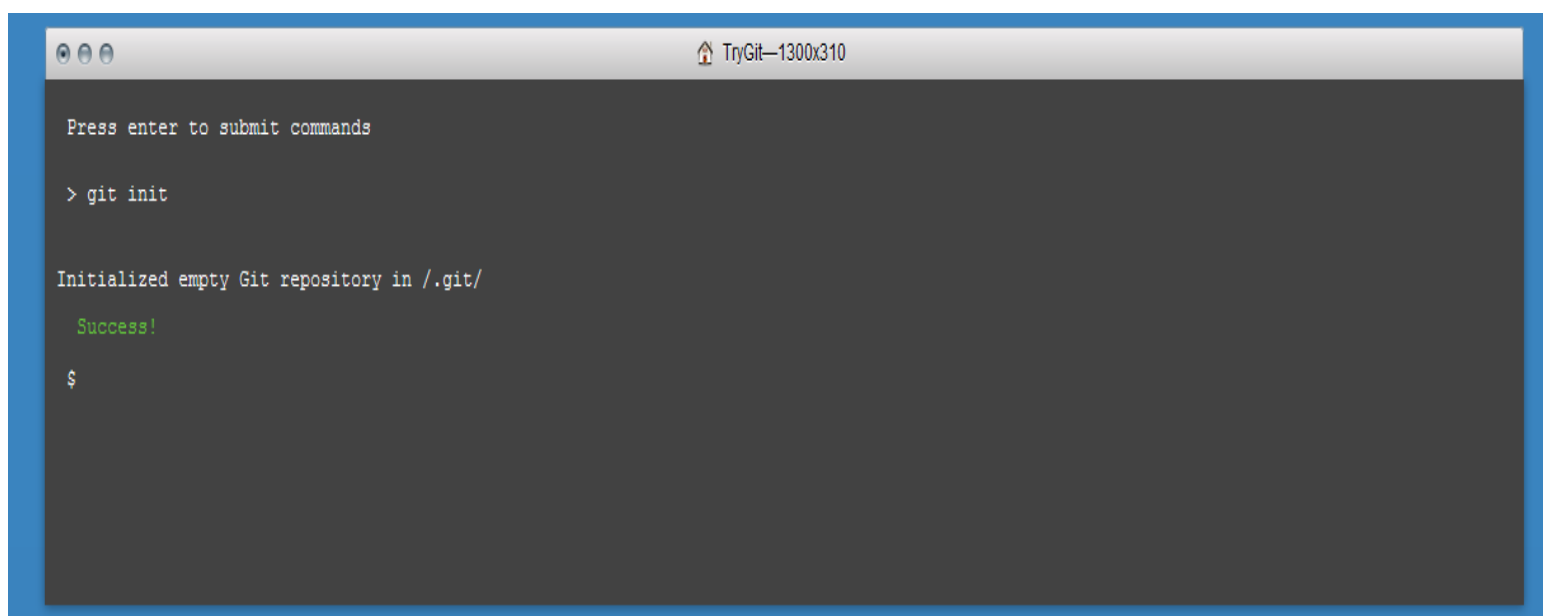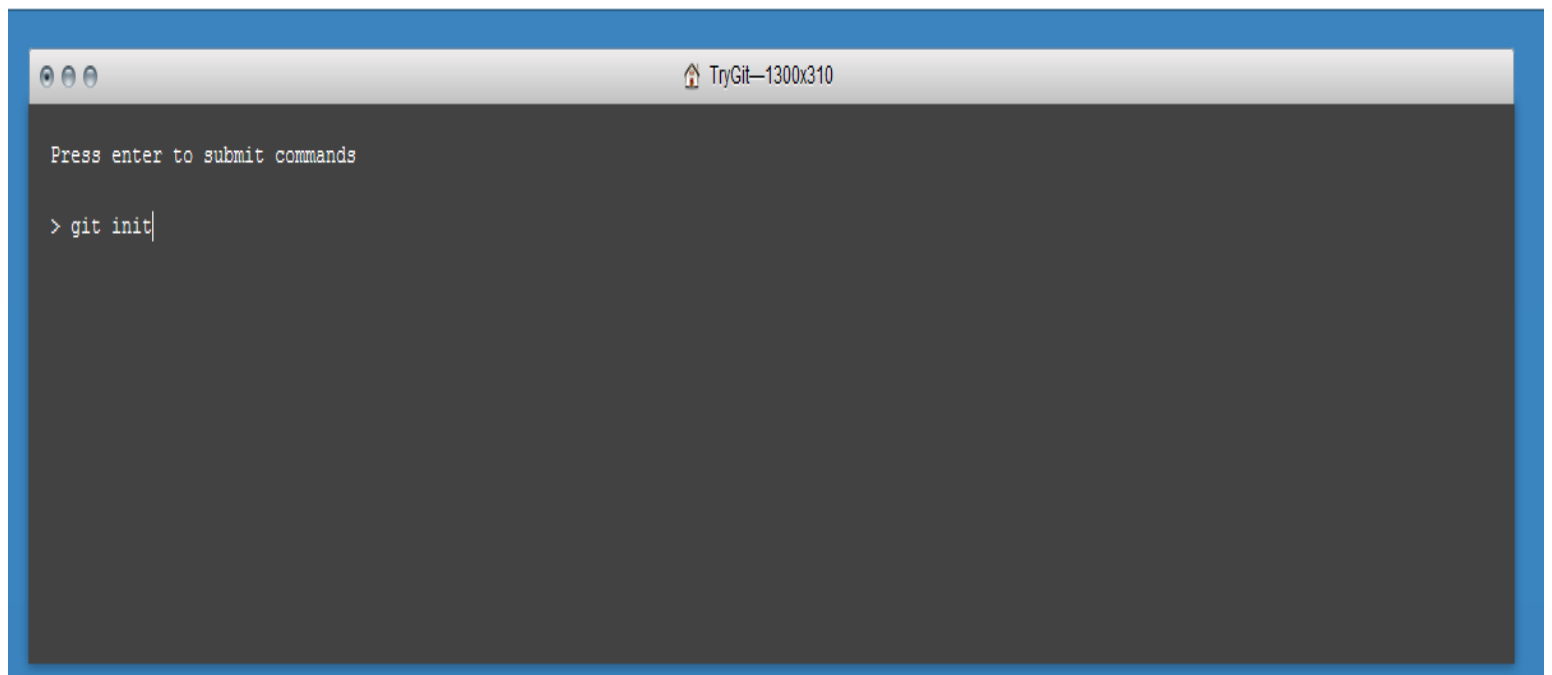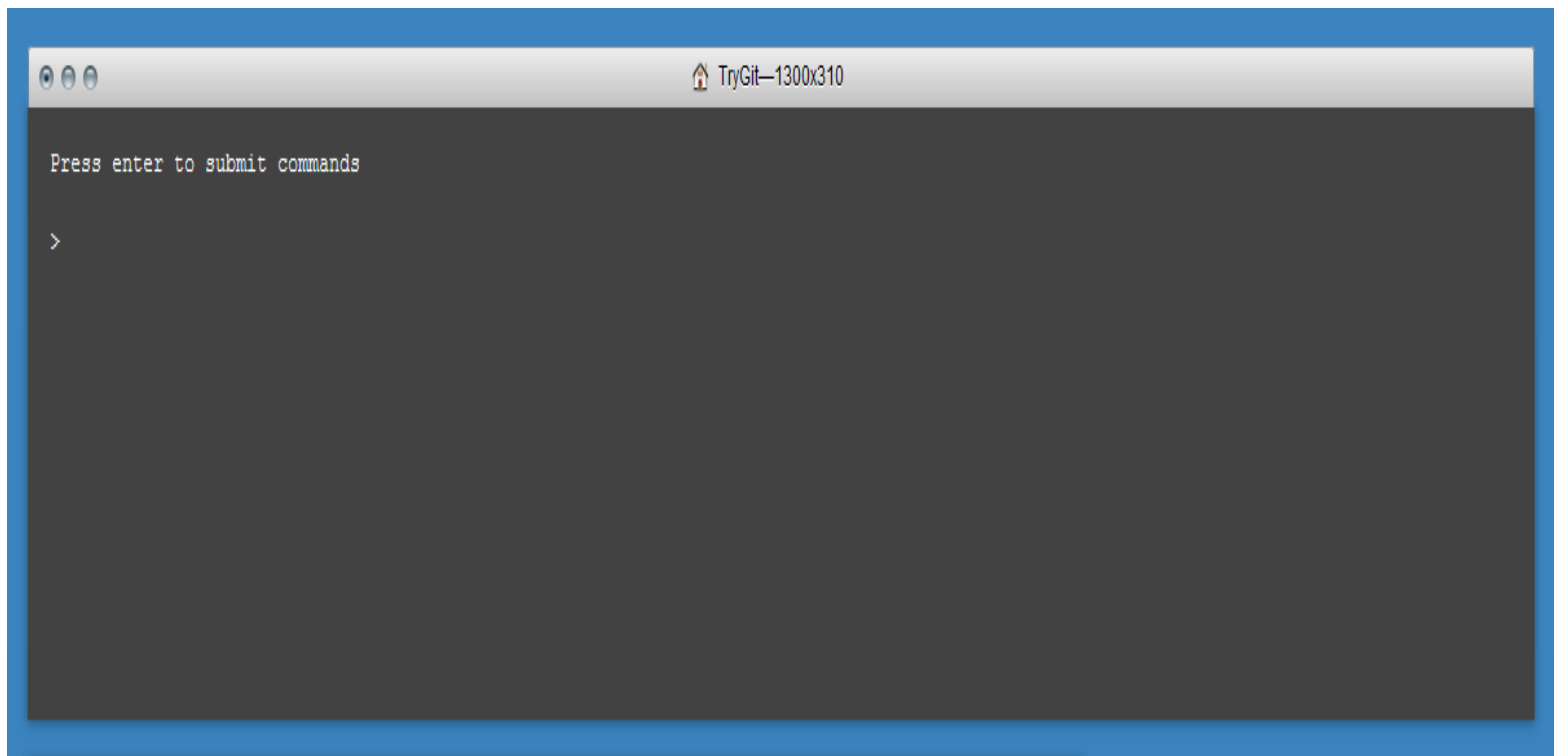
```
Press enter to submit commands

>
```

```
Press enter to submit commands

> git init
```

```
Press enter to submit commands

> git init

Initialized empty Git repository in /.git/
  Success!

$
```

```
# On branch master
#
# Initial commit
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       octocat.txt
nothing added to commit but untracked files present (use "git add" to track)

  Success!

 $
 $ git add octocat.txt




  Nice job, you've added octocat.txt to the Staging Area
```

```
Initialized empty Git repository in /.git/

  Success!

 $ git status


# On branch master
#
# Initial commit
#
nothing to commit (create/copy files and use "git add" to track)

  Success!

 $
```

```
  Success!

 $ git status


# On branch master
#
# Initial commit
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       octocat.txt
nothing added to commit but untracked files present (use "git add" to track)

  Success!

 $
```

```
$
$ git status


# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   octocat.txt
#

  Success!

$
```

```
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   octocat.txt
#

  Success!

$
$ git commit -m "Add cute octocat story"


[master (root-commit) 20b5ccd] Add cute octocat story
 1 file changed, 1 insertion(+)
 create mode 100644 octocat.txt

  Success!

$
```

```
 1 file changed, 1 insertion(+)
 create mode 100644 octocat.txt

  Success!

$ git add '*.txt'
git a



  Success!

$ dd '*.txt'


  dd: command not found

$ |
```

```
  dd: command not found

 $ git commit -m 'Add all the octocat txt files'


[master 3852b4d] Add all the octocat txt files
 4 files changed, 4 insertions(+)
 create mode 100644 blue_octocat.txt
 create mode 100644 octofamily/baby_octocat.txt
 create mode 100644 octofamily/momma_octocat.txt
 create mode 100644 red_octocat.txt

  Success!

 $
```

```
 $ git log


commit 3852b4db1634463d0bb4d267edb7b3f9cd02ace1
Author: Try Git <try_git@github.com>
Date:   Sat Oct 10 08:30:00 2020 -0500

    Add all the octocat txt files

commit b652edfd888cd3d5e7fcb857d0dabc5a0fcb5e28
Author: Try Git <try_git@github.com>
Date:   Sat Oct 10 08:30:00 2020 -0500

    Added cute octocat story

  Success!

 $ git log
```

```
 $ git log
 git rem

commit 3852b4db1634463d0bb4d267edb7b3f9cd02ace1
Author: Try Git <try_git@github.com>
Date:   Sat Oct 10 08:30:00 2020 -0500

    Add all the octocat txt files

commit b652edfd888cd3d5e7fcb857d0dabc5a0fcb5e28
Author: Try Git <try_git@github.com>
Date:   Sat Oct 10 08:30:00 2020 -0500

    Added cute octocat story

  Did not use git remote add

 $ ote add origin https://github.com/try-git/try_git.git
```

```
   ote: command not found

 $ git remote add origin https://github.com/try-git/try_git.git




  Success!

 $ git push -u origin master


Branch master set up to track remote branch master from origin.

  Success!

 $
```

```
   Added cute octocat story
 Did not use git remote add

 $ ote add origin https://github.com/try-git/try_git.gitgit remote add origin https://github.com/try-git/try_git.git


   ote: command not found

 $ git remote add origin https://github.com/try-git/try_git.git




  Success!

 $ |
```

```
Branch master set up to track remote branch master from origin.

  Success!

 $ git pull origin master


Updating 3852b4d..3e70b0f
Fast-forward
 yellow_octocat.txt |    1 +
 1 file changed, 1 insertion(+)
 create mode 100644 yellow_octocat.txt

  Success!

 $
```

```
index 7d8d808..e725ef6 100644
--- a/octocat.txt
+++ b/octocat.txt
@@ -1 +1 @@
-A Tale of Two Octocats
+[mA Tale of Two Octocats and an Octodog

  Success!

$

$ git add octofamily/octodog.txt




  Success!

$ |
```

```
  Success!

$
$ git diff HEAD


diff --git a/octocat.txt b/octocat.txt
index 7d8d808..e725ef6 100644
--- a/octocat.txt
+++ b/octocat.txt
@@ -1 +1 @@
-A Tale of Two Octocats
+[mA Tale of Two Octocats and an Octodog

  Success!

$
```

```
  Success!

$ git diff --staged



diff --git a/octofamily/octodog.txt b/octofamily/octodog.txt
new file mode 100644
index 0000000..cfbc74a
--- /dev/null
+++ b/octofamily/octodog.txt
@@ -0,0 +1 @@
+[mOctoT

  Success!

$ |
```

```
  Success!

$ git reset octofamily/octodog.txt



  Success!

$ git checkout -- octocat.txt



  Success!

$
```

```
$
$ git branch clean_up



  Success!

$ git checkout clean_up


Switched to branch 'clean_up'
  Success!

$
```

```
Switched to branch 'clean_up'

  Success!

$ git rm '*.txt'
 git rm '*.txt'

rm 'blue_octocat.txt'
rm 'octocat.txt'
rm 'octofamily/baby_octocat.txt'
rm 'octofamily/momma_octocat.txt'
rm 'red_octocat.txt'

  Success!

$
$
```

```
                                          TryGit—1300x310

Switched to branch 'master'

   Success!

 $ git merge clean_up



Updating 3852b4d..ec6888b
Fast-forward
 blue_octocat.txt              |     1 -
 octocat.txt                   |     1 -
 octofamily/baby_octocat.txt   |     1 -
 octofamily/momma_octocat.txt  |     1 -
 red_octocat.txt               |     1 -
 5 files changed, 5 deletions(-)
 delete mode 100644 blue_octocat.txt
 delete mode 100644 octocat.txt
 delete mode 100644 octofamily/baby_octocat.txt
 delete mode 100644 octofamily/momma_octocat.txt
 delete mode 100644 red_octocat.txt
```

```
                                          TryGit—1300x310

   Success!

 $
 $ git commit -m "Remove all the cats"


[clean_up 63540fe] Remove all the cats
 5 files changed, 5 deletions(-)
 delete mode 100644 blue_octocat.txt
 delete mode 100644 octocat.txt
 delete mode 100644 octofamily/baby_octocat.txt
 delete mode 100644 octofamily/momma_octocat.txt
 delete mode 100644 red_octocat.txt

   Success!

 $
```

```
                                          TryGit—1300x310

 $ git branch -d clean_up


Deleted branch clean_up (was ec6888b).

   Success!

 $ git push


To https://github.com/try-git/try_git.git
   3e70b0f..9ca29ae  master -> master

   Success!

 >|
```