

TP1

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Introduction : In this project, we explored the fundamentals of Git by creating files, merging branches, and working together with classmates. We also gained experience with pushing our changes and pulling updates, which enhanced our understanding of collaboration and problem-solving using Git.

```
Microsoft Windows [version 10.0.19045.6332]
(c) Microsoft Corporation. Tous droits réservés.

C:\Users\saf>git config --global user.name "fatima ezzahra safar"

C:\Users\saf>git config --global user.name fatimaezzahra.safar@um6p.ma

C:\Users\saf>git config --list
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fsmonitor=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=fatimaezzahra.safar@um6p.ma
user.email=your.name@um6p.com

C:\Users\saf>mkdir tpgit

C:\Users\saf>cd tpgit

C:\Users\saf\tpgit>git init
Initialized empty Git repository in C:/Users/saf/tpgit/.git/

C:\Users\saf\tpgit>ls -a
ls: n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.

C:\Users\saf\tpgit>dir /a
Le volume dans le lecteur C s'appelle OS
Le numéro de série du volume est E8D1-FFD0

Répertoire de C:\Users\saf\tpgit
5/09/2025 15:47 <DIR>      .
5/09/2025 15:47 <DIR>      ..
5/09/2025 15:47 <DIR>      .git
                0 fichier(s)          0 octets
                3 Rép(s)  41 943 281 664 octets libres

C:\Users\saf\tpgit>echo apple >> fruits.txt

C:\Users\saf\tpgit>echo banana >> fruits.txt

C:\Users\saf\tpgit>git status
```

Figure 1: configur your git account and chek that they worked creat a git repostiry .

```

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\saf\tpgit> git add fruits.txt

C:\Users\saf\tpgit> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   fruits.txt

C:\Users\saf\tpgit> git commit -m "add apple and banana to fruits.txt"
[master (root-commit) 093b151] add apple and banana to fruits.txt
 1 file changed, 2 insertions(+)
 create mode 100644 fruits.txt

C:\Users\saf\tpgit> git status
On branch master
nothing to commit, working tree clean

C:\Users\saf\tpgit> git log --oneline
093b151 (HEAD -> master) add apple and banana to fruits.txt

C:\Users\saf\tpgit> echo ananass >> fruits.txt

C:\Users\saf\tpgit> git diff fruits.txt
diff --git a/fruits.txt b/fruits.txt
index c2dfdc0..0114e4b 100644
--- a/fruits.txt
+++ b/fruits.txt
@@ -1,2 +1,3 @@
 apple
 banana
+ananass

C:\Users\saf\tpgit> git add fruits.txt

C:\Users\saf\tpgit> git commit -m "add ananass to fruits.txt"
[master 87f4766] add ananass to fruits.txt
 1 file changed, 1 insertion(+)

C:\Users\saf\tpgit> echo kiwi >> fruits.txt

C:\Users\saf\tpgit> git diff fruits.txt

```

Figure 2: Create a file named fruits.txt. Make a commit by adding 2 fruits to fruits.txt

```

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\saf\tpgit> git add fruits.txt

C:\Users\saf\tpgit> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   fruits.txt

C:\Users\saf\tpgit> git commit -m "add apple and banana to fruits.txt"
[master (root-commit) 093b151] add apple and banana to fruits.txt
 1 file changed, 2 insertions(+)
 create mode 100644 fruits.txt

C:\Users\saf\tpgit> git status
On branch master
nothing to commit, working tree clean

C:\Users\saf\tpgit> git log --oneline
093b151 (HEAD -> master) add apple and banana to fruits.txt

C:\Users\saf\tpgit> echo ananass >> fruits.txt

C:\Users\saf\tpgit> git diff fruits.txt
diff --git a/fruits.txt b/fruits.txt
index c2dfdc0..0114e4b 100644
--- a/fruits.txt
+++ b/fruits.txt
@@ -1,2 +1,3 @@
 apple
 banana
+ananass

C:\Users\saf\tpgit> git add fruits.txt

C:\Users\saf\tpgit> git commit -m "add ananass to fruits.txt"
[master 87f4766] add ananass to fruits.txt
 1 file changed, 1 insertion(+)

C:\Users\saf\tpgit> echo kiwi >> fruits.txt

C:\Users\saf\tpgit> git diff fruits.txt

```

Figure 3: Make a commit by adding 3 fruits to fruits.txt

```

@@ -1,3 +1,4 @@
apple
banana
ananass
+kiwi

C:\Users\saf\tpgit>git commit -m "add kiwi to fruits.txt"
On 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)
        modified:   fruits.txt

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\saf\tpgit>echo orange >> fruits.txt

C:\Users\saf\tpgit>git diff fruits.txt
diff --git a/fruits.txt b/fruits.txt
index 0114e4b..e60591d 100644
--- a/fruits.txt
+++ b/fruits.txt
@@ -1,3 +1,5 @@
apple
banana
ananass
+kiwi
+orange

C:\Users\saf\tpgit>git add fruits.txt

C:\Users\saf\tpgit>git commit -m "add orange to fruits.txt"
[master f1074fd] add orange to fruits.txt
1 file changed, 2 insertions(+)

C:\Users\saf\tpgit>git log --oneline --graph --decorate --all
* f1074fd (HEAD -> master) add orange to fruits.txt
* 87f4766 add ananass to fruits.txt
* 093b151 add apple and banana to fruits.txt

C:\Users\saf\tpgit> git branch vegetables

C:\Users\saf\tpgit>git checkout vegetables
Switched to branch 'vegetables'

C:\Users\saf\tpgit>git branch
  master
* vegetables

```

Figure 4: Make a commit by adding 3 vegetables to vegetables.txt

```

* 093b151 add apple and banana to fruits.txt

C:\Users\saf\tpgit>git branch sauces

C:\Users\saf\tpgit>git checkout sauces
Switched to branch 'sauces'

C:\Users\saf\tpgit>echo ketchub >> sauces.txt

C:\Users\saf\tpgit>git add sauces.txt

C:\Users\saf\tpgit>git commit -m "addad hetchub to sauces.txt"
[sauces a361662] added hetchub to sauces.txt
1 file changed, 1 insertion(+)
create mode 100644 sauces.txt

C:\Users\saf\tpgit>echo algerienne >> sauces.txt

C:\Users\saf\tpgit>git add sauces.txt

C:\Users\saf\tpgit>git commit -m "added algerienne to sauces.txt"
[sauces d7f51ac] added algerienne to sauces.txt
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit>git branch
* master
* sauces
  vegetables

C:\Users\saf\tpgit>git log --oneline --graph --decorate --all
* d7f51ac (HEAD -> sauces) added algerienne to sauces.txt
* a361662 added hetchub to sauces.txt
* 95129ed (vegetables) added abrico to vegetables.txt
* 779604e added corrot to vegetables.txt
* f1074fd (master) add orange to fruits.txt
* 87f4766 add ananass to fruits.txt
* 093b151 add apple and banana to fruits.txt

C:\Users\saf\tpgit>git checkout vegetables
Switched to branch 'vegetables'

C:\Users\saf\tpgit>
C:\Users\saf\tpgit>dir
Le volume dans le lecteur C s'appelle OS
Le numéro de série du volume est E8D1-FFDD

Répertoire de C:\Users\saf\tpgit

```

Figure 5: Create a file named sauces.txt and make a commit by adding 2 sauces to sauces.txt

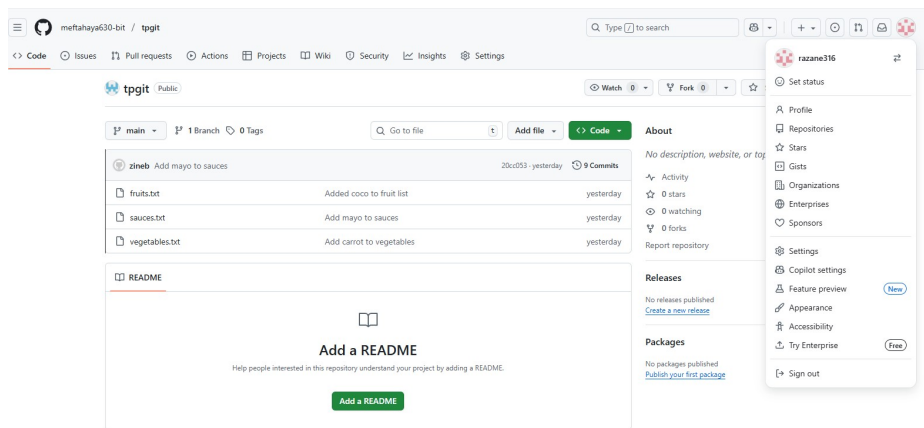


Figure 6: Here are the files

```

C:\Users\saf\tpgit>git checkout vegetables
Switched to branch 'vegetables'

C:\Users\saf\tpgit>
C:\Users\saf\tpgit>dir
Le volume dans le lecteur C s'appelle OS
Le numéro de série du volume est E8D1-FFDD

Répertoire de C:\Users\saf\tpgit

5/09/2025  16:50  <DIR>          .
5/09/2025  16:50  <DIR>          ..
5/09/2025  16:09                43 fruits.txt
5/09/2025  16:39                31 vegetables.txt
                2 fichier(s)              74 octets
                2 Rép(s)  41 841 283 072 octets libres

C:\Users\saf\tpgit>git diff vegetables

C:\Users\saf\tpgit>git merge master
Already up to date.

C:\Users\saf\tpgit>git branch -d vegetables
git: 'branch -d' is not a git command. See 'git --help'.

C:\Users\saf\tpgit>git branch -d vegetables
error: cannot delete branch 'vegetables' used by worktree at 'C:/Users/saf/tpgit'

C:\Users\saf\tpgit>git checkout master
Switched to branch 'master'

C:\Users\saf\tpgit>git branch -d vegetables
error: the branch 'vegetables' is not fully merged
hint: If you are sure you want to delete it, run 'git branch -D vegetables'
hint: Disable this message with "git config set advice.forceDeleteBranch false"

C:\Users\saf\tpgit>git config set advice.forceDeleteBranch false

C:\Users\saf\tpgit>git log --oneline --graph --decorate --all
d7f51ac (sauces) added algerienne to sauces.txt
a361662 added hetchub to sauces.txt
95129ed (vegetables) added abricot to vegetables.txt
779604e added corrot to vegetables.txt
f1074fd (HEAD -> master) add orange to fruits.txt
87f4766 add ananass to fruits.txt
093b151 add apple and banana to fruits.txt

```

Figure 7: I merged master to vegetables and merged back vegetables to master

```

C:\Users\saf\tpgit>
C:\Users\saf\tpgit>git checkout sauces
Switched to branch 'sauces'

C:\Users\saf\tpgit>git diff master
diff --git a/sauces.txt b/sauces.txt
new file mode 100644
index 0000000..ff62902
-- /dev/null
++ b/sauces.txt
@ -0,0 +1,2 @@
ketchup
algerienne
diff --git a/vegetables.txt b/vegetables.txt
new file mode 100644
index 0000000..95006b4
-- /dev/null
++ b/vegetables.txt
@ -0,0 +1,3 @@
"carrot"
"tomato"
abrico

C:\Users\saf\tpgit> git checkout master
Switched to branch 'master'

C:\Users\saf\tpgit>git diff sauces
diff --git a/sauces.txt b/sauces.txt
deleted file mode 100644
index ff62902..0000000
-- a/sauces.txt
++ /dev/null
@ -1,2 +0,0 @@
ketchup
algerienne
diff --git a/vegetables.txt b/vegetables.txt
deleted file mode 100644
index 95006b4..0000000
-- a/vegetables.txt
++ /dev/null
@ -1,3 +0,0 @@
"carrot"
"tomato"
abrico

C:\Users\saf\tpgit>git merge sauces
Updating f1074fd..d7f51ac

```

Figure 8: I merged master to sauces and merged back sauces to master


```

diff --git a/vegetables.txt b/vegetables.txt
deleted file mode 100644
index 95006b4..0000000
--- a/vegetables.txt
+++ /dev/null
@@ -1,3 +0,0 @@
- "carrot"
- "tomato"
- abrico

C:\Users\saf\tpgit>git merge sauces
Updating f1074fd..d7f51ac
Fast-forward
  sauces.txt      | 2 ++
  vegetables.txt | 3 +++
  2 files changed, 5 insertions(+)
  create mode 100644 sauces.txt
  create mode 100644 vegetables.txt

C:\Users\saf\tpgit>git branch
* master
  sauces
  vegetables

C:\Users\saf\tpgit>git log --oneline --graph --decorate --all
* d7f51ac (HEAD -> master, sauces) added algerienne to sauces.txt
* a361662 added hetchub to sauces.txt
* 95129ed (vegetables) added abrico to vegetables.txt
* 779604e added corrot to vegetables.txt
* f1074fd add orange to fruits.txt
* 87f4766 add ananass to fruits.txt
* 093b151 add apple and banana to fruits.txt

C:\Users\saf\tpgit>https://github.com/meftahaya630-bit/tpgit
'https:' n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.

C:\Users\saf\tpgit>git remote add origin https://github.com/meftahaya630-bit/tpgit

```

Figure 9: Confirm that all branches are up to date

```

\Users\saf\tpgit>
\Users\saf\tpgit>git remote add origin https://github.com/razane316/tpgit-.git
error: remote origin already exists.

\Users\saf\tpgit>git remote add kiln https://github.com/razane316/tpgit-.git

\Users\saf\tpgit>git branch -M main

\Users\saf\tpgit>git push -u kiln main
Enumerating objects: 21, done.
Counting objects: 100% (21/21), done.
Compressing objects: 100% (11/11), done.
Writing objects: 100% (21/21), 1.85 KiB | 47.00 KiB/s, done.
Total 21 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/razane316/tpgit-.git
 [new branch]   main -> main
branch 'main' set up to track 'kiln/main'.

\Users\saf\tpgit>git clone 7 Collaborative WorkYou will work in pairs on the repository of Pair 1. Pair 2 must clone Pair 1's repository into a folder named tp-git-binome.S
to Pair 1's repository on GitHub.2. Click on "Code" and select *HTTPS*.3. Clone the repository locally using the following command:git clone <repository-HTTPS-URL> tp-git-b
cloned directory and examine the commit history8 Merge Without ConflictWork for student 11. Create a branch spices2. Add a file spices.txt on this branch..3. Make 2 separa
4. Merge your branch into master5. Pull any changes from the remote repository: (git pull)6. Push your changes to GitHub:(git push)Work for student 21. Create a branch herb
tal: Too many arguments.

```

Figure 10: created an account

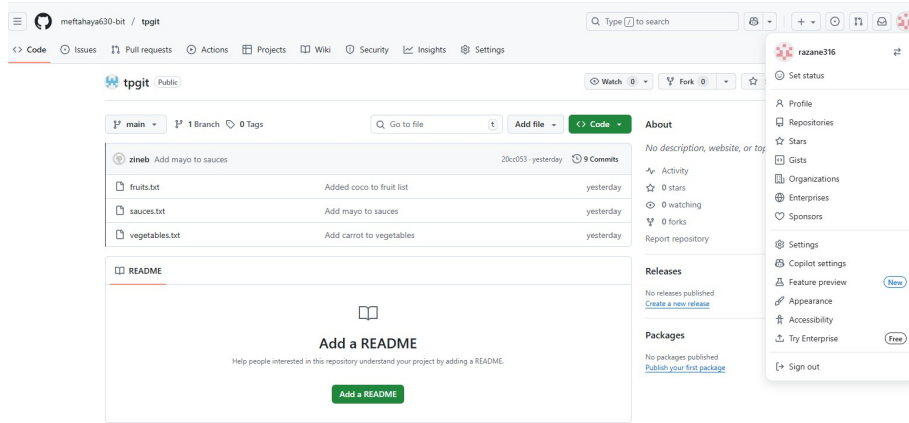


Figure 11: collaborating with my teammate

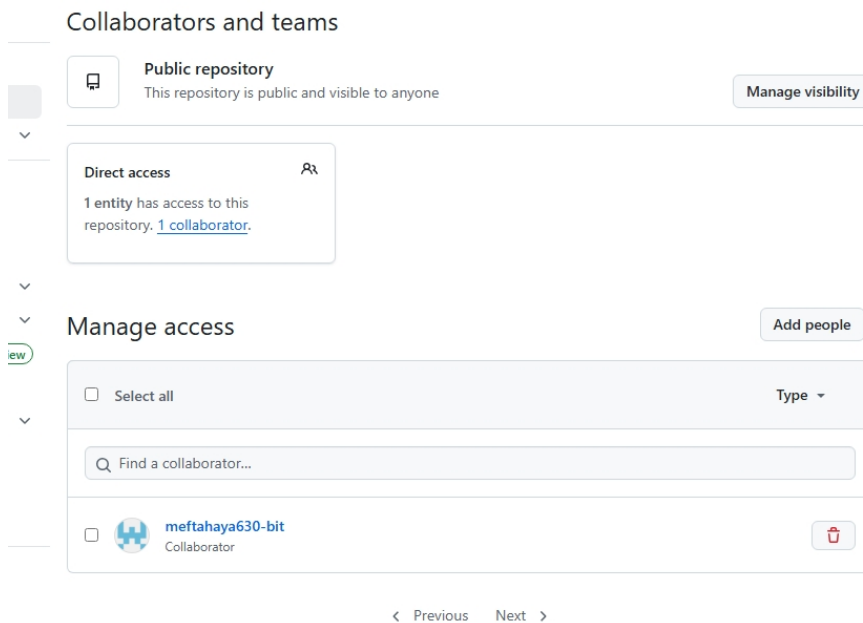


Figure 12: collaborating with my teammate

```

C:\Users\saf\tpgit\tp-git-binome>add branch herbs
'add' n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.

C:\Users\saf\tpgit\tp-git-binome>git checkout -b herbs
Switched to a new branch 'herbs'

C:\Users\saf\tpgit\tp-git-binome>echo basil >> herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git add herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git commit -m "added basil to herbs"
[herbs 1a354f4] added basil to herbs
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit\tp-git-binome>echo thyme >> herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git add herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git commit -m "added thyme to herbs"
[herbs e94357c] added thyme to herbs
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit\tp-git-binome>git checkout herbs
Already on 'herbs'

C:\Users\saf\tpgit\tp-git-binome>git diff main
diff --git a/herbs.txt b/herbs.txt
index 1688788..c3dc251 100644
--- a/herbs.txt
+++ b/herbs.txt
@@ -1,2 +1,4 @@
 basil
 thyme
+basil
+thyme

```

Figure 13: Create a file named herbs.txt and make a commit by adding 2 herbs to herbs.txt

```

C:\Users\saf\tpgit\tp-git-binome>git checkout -b herbs
Switched to a new branch 'herbs'

C:\Users\saf\tpgit\tp-git-binome>echo basil >> herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git add herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git commit -m "added basil to herbs"
[herbs 1a354f4] added basil to herbs
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit\tp-git-binome>echo thyme >> herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git add herbs.txt

C:\Users\saf\tpgit\tp-git-binome>git commit -m "added thyme to herbs"
[herbs e94357c] added thyme to herbs
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit\tp-git-binome>git checkout herbs
Already on 'herbs'

C:\Users\saf\tpgit\tp-git-binome>git diff main
diff --git a/herbs.txt b/herbs.txt
index 1688788..c3dc251 100644
--- a/herbs.txt
+++ b/herbs.txt
@@ -1,2 +1,4 @@
-
+basil
+thyme

C:\Users\saf\tpgit\tp-git-binome>git diff main
diff --git a/herbs.txt b/herbs.txt
index 1688788..c3dc251 100644
--- a/herbs.txt
+++ b/herbs.txt
@@ -1,2 +1,4 @@
-
+basil
+thyme

C:\Users\saf\tpgit\tp-git-binome>git merge main
Already up to date.

```

Figure 14: Create a file named herbs.txt and make a commit by adding 2 herbs to herbs.txt

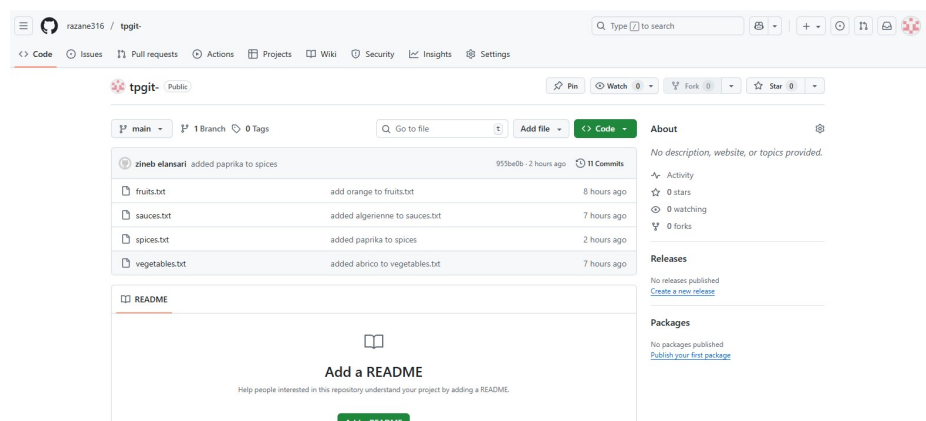


Figure 15: verify that sices.txt and herbs.txt exist in both local repostary

```
C:\Users\saf\tpgit\tp-git-binome>git pull
Already up to date.

C:\Users\saf\tpgit\tp-git-binome>git push
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.04 KiB | 56.00 KiB/s, done.
Total 12 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/meftahaya630-bit/tpgit.git
   20cc053..e94357c  main -> main

C:\Users\saf\tpgit\tp-git-binome>_
```

Figure 16: pull any changes from the remote repository and push your change to git hub

```

C:\Users\saf\tpgit\tp-git-binome>echo fraise >> fruits.txt

C:\Users\saf\tpgit\tp-git-binome>add fruits.txt
'add' n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.

C:\Users\saf\tpgit\tp-git-binome>git add fruits.txt

C:\Users\saf\tpgit\tp-git-binome>git commit -m "added fraise to fruits"
[main 207b0ad] added fraise to fruits
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit\tp-git-binome>git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 392 bytes | 49.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/meftahaya630-bit/tpgit.git
e94357c..207b0ad main -> main

C:\Users\saf\tpgit\tp-git-binome>echo zucchini >> vegetables.txt

C:\Users\saf\tpgit\tp-git-binome>git add vegetables.txt

C:\Users\saf\tpgit\tp-git-binome>git commit -m "added zucchini to vegetables"
[main 2e8fd98] added zucchini to vegetables
1 file changed, 1 insertion(+)

C:\Users\saf\tpgit\tp-git-binome>git pull
Already up to date.

C:\Users\saf\tpgit\tp-git-binome>git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 309 bytes | 77.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/meftahaya630-bit/tpgit.git
207b0ad..2e8fd98 main -> main

```

Figure 17: we entered the fruits and vegetables and then had a problem, but we solved it

Project Description

This TP project introduces students to the basics of Git and collaborative development. By working together, students learn how to manage code versions, resolve conflicts, and build effective teamwork skills. It also supports the development of critical problem-solving abilities needed in real-world projects.

Authors |

- Fatima Ezzahra Safar
- Zineb El Anssari

Objectives

- Understand and use Git effectively
- Improve problem-solving abilities
- Practice teamwork and collaboration

Figure 18: Document my project using markdown