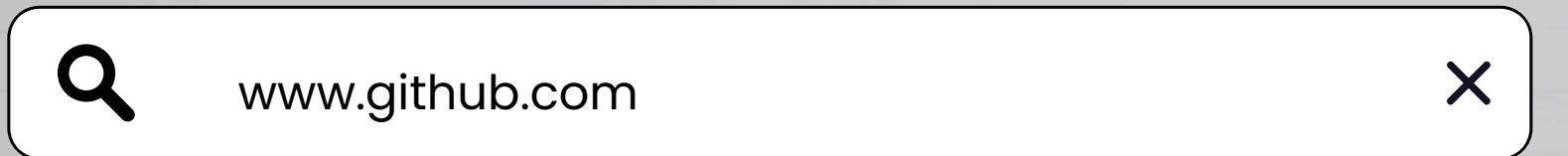


Actividad 4



Preguntas

¿Cómo te ha ayudado git a mantener un historial claro y organizado de tus cambios?

Git es sumamente importante en este aspecto, ya que tiene un historial de commits. Este permite ver todos los cambios que se ha hecho en cada uno de estos commits y está ordenado, lo que permite tener un buen control de los cambios realizados.

Preguntas

¿Qué beneficios ves en el uso de ramas para desarrollar nuevas características o corregir errores?

- Aisla los cambios.
- Facilita una reversión de cambios.
- Facilita el trabajo en equipo.

Preguntas

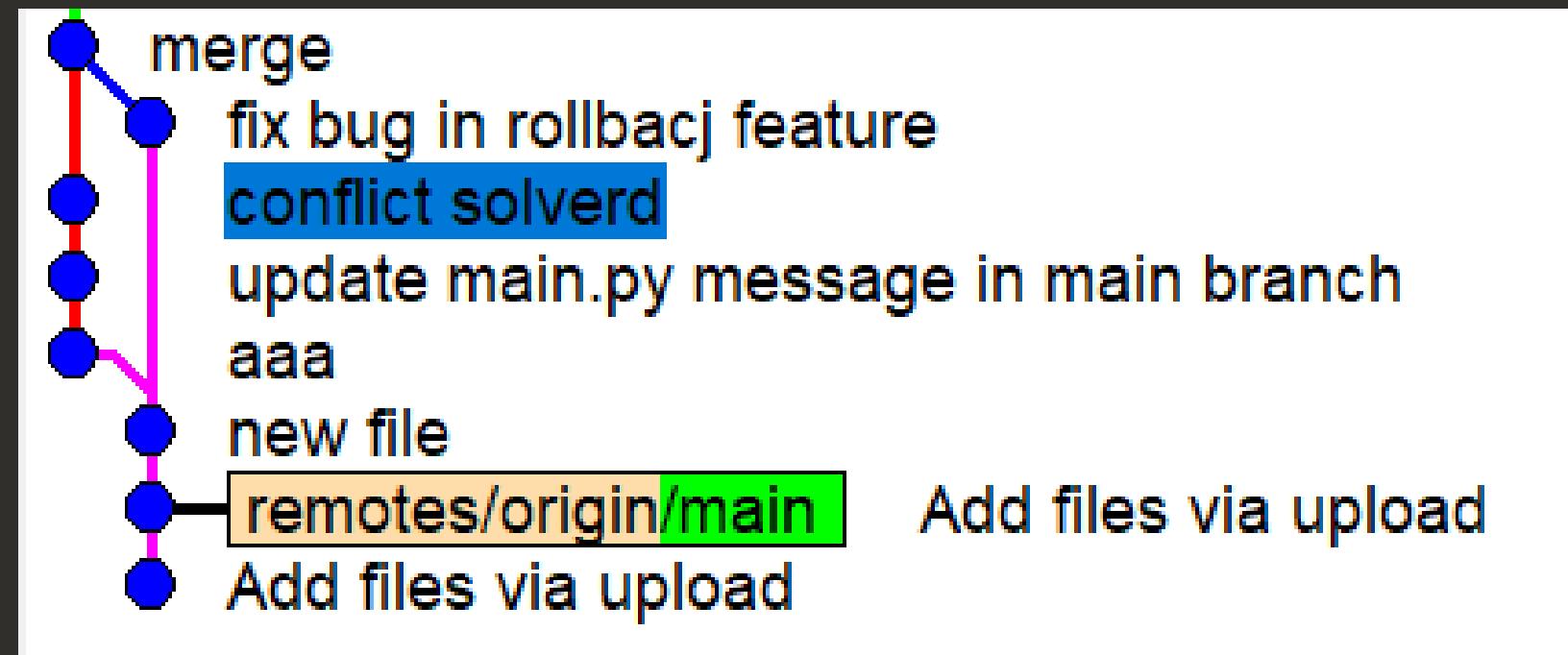
Realiza una revisión final del historial de commits para asegurarte de que todos los cambios se han registrado correctamente.

Historial de commits hasta el uso de branchs y merge:

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de Software/CC3S2A/Activity4
main)
$ git log --oneline
9feda7b (HEAD -> main) Merge branch 'feature/advanced-feature'
5875276 Update main.py massage in main branch
ad3ee8c Add greet function in advanced feature
179bbac (feature/login, develop) Add main.py
85dbd77 (hotfix/bugfix) Set up the repository base documentation
509d01b Initial commit with README.md
53e28c0 (origin/main, origin/HEAD) update activity 2
15a6b8e add activity 1 and activity 2 ppts
2990c12 Initial commit
```

Preguntas

Revisa el uso de ramas y merges para ver como git maneja múltiples líneas de desarrollo.



1

Resolviendo los conflictos

```
$ git log
commit bb203402d33d7b65f25ac7649562f6c7686b9dd9 (HEAD -> main)
Merge: e891714 d7a5a8d
Author: shifu <gabrielcastillejo25@gmail.com>
Date:   Wed Apr 2 09:58:26 2025 -0500

    resolve merge conflict between main and feature

commit d7a5a8def5e1ee59cb6e73d7982505513a0e8b2d
Author: shifu <gabrielcastillejo25@gmail.com>
Date:   Wed Apr 2 09:52:20 2025 -0500

    add greet function in advanced feature

commit e891714e45f8cd33dc9a117229ac2d8bcbce633e
Author: shifu <gabrielcastillejo25@gmail.com>
Date:   Wed Apr 2 09:48:29 2025 -0500

    add main.py

commit 7535d9f84711d98fef4a46a407027a08b3e22874
Author: shifu <gabrielcastillejo25@gmail.com>
```

2

Historial de commits

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de Software/CC3S2A/Activity4 (main)
$ git log -p
commit 1d099a70a7552f79ee6c1bbac3c52cdb47a4b9f6 (HEAD -> main)
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Sun Apr 6 14:27:01 2025 -0500

    Revert "Little change in main.py"

    This reverts commit d46c0ed5343d9445239175c5af84d08417890b93.

diff --git a/Activity4/main.py b/Activity4/main.py
index 27522e9..cccae82 100644
--- a/Activity4/main.py
+++ b/Activity4/main.py
@@ -1,3 +1,4 @@
 def greet():
     print('Hello from advanced feature')
+
 greet()
\ No newline at end of file

commit d46c0ed5343d9445239175c5af84d08417890b93
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Sun Apr 6 14:25:18 2025 -0500

    Little change in main.py

diff --git a/Activity4/main.py b/Activity4/main.py
index cccae82..27522e9 100644
--- a/Activity4/main.py
+++ b/Activity4/main.py
@@ -1,4 +1,3 @@
 def greet():
     print('Hello from advanced feature')
-
 greet()
\ No newline at end of file

commit 9fedaa7bc3045e2023f86457fea37d768611d2c31
Merge: 5875276 ad3ee8c
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 10:31:38 2025 -0500

    Merge branch 'feature/advanced-feature'

commit 5875276c8b16f6390090f13edc8f09cdada94c9d
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 09:59:11 2025 -0500

    Update main.py message in main branch

diff --git a/Activity4/main.py b/Activity4/main.py
index df1dc68..971e8f4 100644
--- a/Activity4/main.py
+++ b/Activity4/main.py
@@ -1 +1 @@
-print('Hello World')
```

2

Historial de commits

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de Software/CC3S2A/Activity4 (main)
$ git log --author="SandroCJ210"
commit 1d099a70a7552f79ee6c1bbac3c52cdb47a4b9f6 (HEAD -> main)
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Sun Apr 6 14:27:01 2025 -0500

    Revert "Little change in main.py"

    This reverts commit d46c0ed5343d9445239175c5af84d08417890b93.

commit d46c0ed5343d9445239175c5af84d08417890b93
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Sun Apr 6 14:25:18 2025 -0500

    Little change in main.py

commit 9feda7bc3045e2023f86457fea37d768611d2c31
Merge: 5875276 ad3ee8c
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 10:31:38 2025 -0500

    Merge branch 'feature/advanced-feature'

commit 5875276c8b16f6390090f13edc8f09cdada94c9d
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 09:59:11 2025 -0500

    Update main.py message in main branch

commit ad3ee8ce9dc173cc371edb5994ebd0db8fc6ad71
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 09:58:06 2025 -0500

    Add greet function in advanced feature

commit 179bbac6b379e701ba7f84fb6853d6c7e7bda243 (Feature/login, develop)
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Wed Apr 2 11:10:38 2025 -0500

    Add main.py

commit 85dbd77c8fc4188095dfb7fc89118ec08943db2 (hotfix/bugfix)
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Wed Apr 2 11:07:04 2025 -0500

    Set up the repository base documentation
```

Rebase

2

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de S
$ git log -p
commit b679ef778a63dedbedc7ad8d076cfeabfa7c2e8d (HEAD -> main)
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 09:58:06 2025 -0500

    Add greet function in advanced feature

    Little change in main.py

    Revert "Little change in main.py"

    This reverts commit d46c0ed5343d9445239175c5af84d08417890b93.

diff --git a/Activity4/main.py b/Activity4/main.py
index 971e8f4..cccae82 100644
--- a/Activity4/main.py
+++ b/Activity4/main.py
@@ -1 +1,4 @@
-print('Hello World - updated in main')
+def greet():
+    print('Hello from advanced feature')
+
+greet()
\ No newline at end of file
```

Rebase

2

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de S
$ git log -p
commit b679ef778a63dedbedc7ad8d076cfeabfa7c2e8d (HEAD -> main)
Author: SandroCJ210 <sandro.carrillo.j@uni.pe>
Date:   Fri Apr 4 09:58:06 2025 -0500

    Add greet function in advanced feature

    Little change in main.py

    Revert "Little change in main.py"

    This reverts commit d46c0ed5343d9445239175c5af84d08417890b93.

diff --git a/Activity4/main.py b/Activity4/main.py
index 971e8f4..cccae82 100644
--- a/Activity4/main.py
+++ b/Activity4/main.py
@@ -1 +1,4 @@
-print('Hello World - updated in main')
+def greet():
+    print('Hello from advanced feature')
+
+greet()
\ No newline at end of file
```

2

Visualización gráfica del historial

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarr  
$ git log --graph --oneline --all  
* b679ef7 (HEAD -> main) Add greet function in advanced feature  
* 5875276 Update main.py massage in main branch  
* 179bbac (feature/login, develop) Add main.py  
* 85dbd77 (hotfix/bugfix) Set up the repository base documentation  
* 509d01b Initial commit with README.md  
* 53e28c0 (origin/main, origin/HEAD) update activity 2  
* 15a6b8e add activity 1 and activity 2 ppts  
* 2990c12 Initial commit
```

Reflexión

Se me hizo raro que no se mostraran varias ramas gráficamente, sin embargo, se puede observar qué commit pertenece a qué rama y por lo tanto este comando es de gran ayuda para tener un buen control del proyecto.

3

Visualización gráfica del historial

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de Software/CC3S2A
$ git log --graph --oneline
* 412d29d (HEAD -> main) Resolve merge conflict between main and bugfix/rollback-feature
|\ \
| * cc08b00 (bugfix/rollback-feature) Fix bug in rollback feature
| * b679ef7 Add greet function in advanced feature
| * 5875276 Update main.py massage in main branch
|/
* 179bbac (feature/login, develop) Add main.py
* 85dbd77 (hotfix/bugfix) Set up the repository base documentation
* 509d01b Initial commit with README.md
* 53e28c0 (origin/main, origin/HEAD) update activity 2
* 15a6b8e add activity 1 and activity 2 ppts
* 2990c12 Initial commit
```

4

git reset

```
gabri@Gabriel2020 MINGW64 /c/Proyectos/TestActivities (actividad4)
$ git reset --hard HEAD~1
HEAD is now at 575e887 Merge branch 'bugfix/rollback-feature'
```

```
gabri@Gabriel2020 MINGW64 /c/Proyectos/TestActivities (actividad4)
$ git status
On branch actividad4
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file: README.md

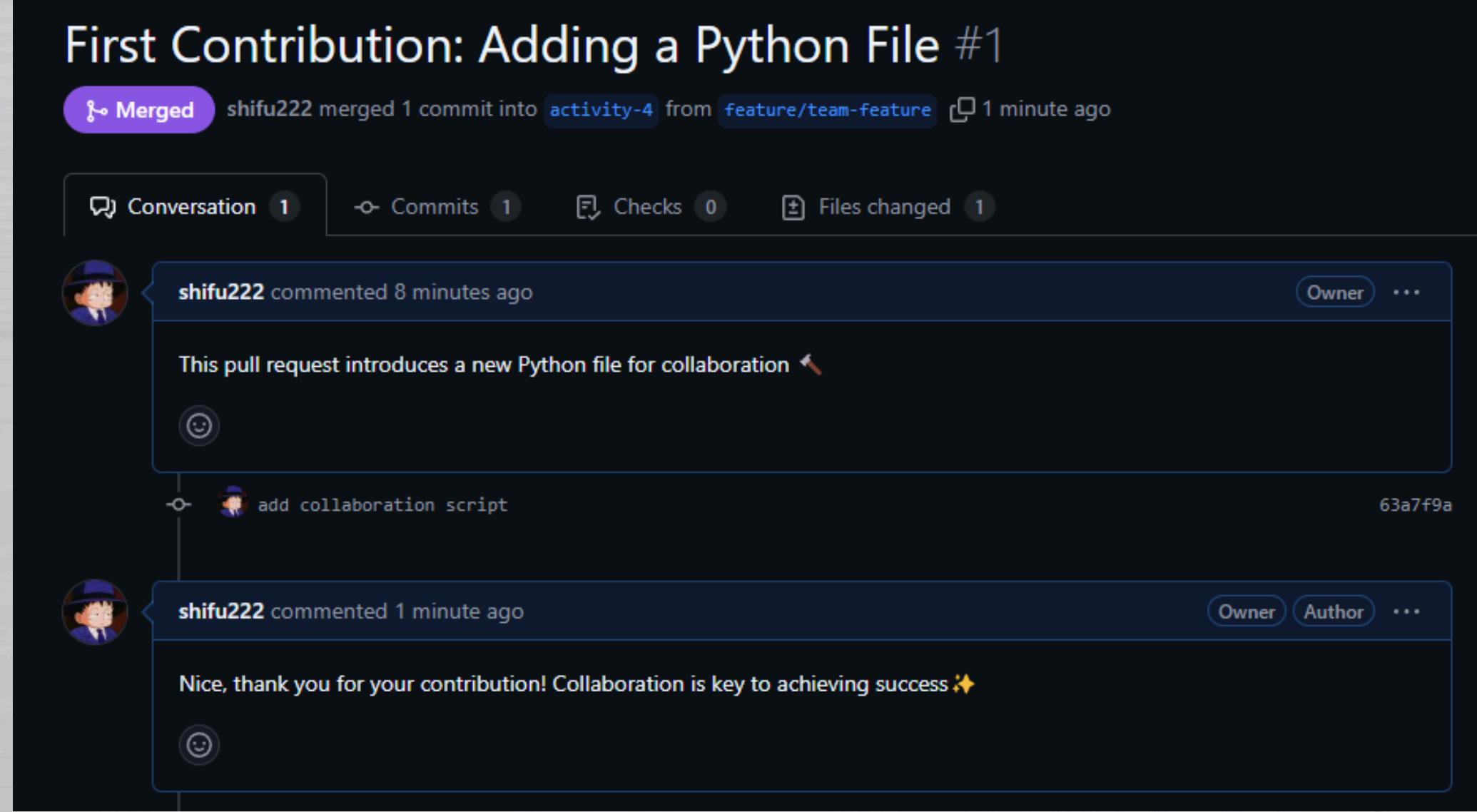
gabri@Gabriel2020 MINGW64 /c/Proyectos/TestActivities (actividad4)
$ git restore --staged README.md

gabri@Gabriel2020 MINGW64 /c/Proyectos/TestActivities (actividad4)
$ git status
On branch actividad4
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    README.md

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

git restore

5 Pull Request



6

Cherry picking y git stash

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ echo "This change is stashed" >> main.py

sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ git status
On branch feature/cherry-pick
You are currently cherry-picking commit 3f01d53.
  (all conflicts fixed: run "git cherry-pick --continue")
  (use "git cherry-pick --skip" to skip this patch)
  (use "git cherry-pick --abort" to cancel the cherry-pick operation)

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:   main.py

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

sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ git stash
warning: in the working copy of 'Activity4/main.py', LF will be replaced by CRLF
Saved working directory and index state WIP on feature/cherry-pick

sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ git status
On branch feature/cherry-pick
nothing to commit, working tree clean

sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ echo "New changes" >> main.py

sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ git add .
warning: in the working copy of 'Activity4/main.py', LF will be replaced by CRLF

sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ git stash pop
Auto-merging Activity4/main.py
CONFLICT (content): Merge conflict in Activity4/main.py
On branch feature/cherry-pick
Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
    both modified:  main.py
```

Luego de resolver el merge

```
sandr@Sandro MINGW64 ~/OneDrive/Desktop/Universidad/6to ciclo/Desarrollo de software
$ git status
On branch feature/cherry-pick
Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
    both modified:  main.py

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

¿Cuál es la
salida del
siguiente
comando?



```
$ git log --graph --pretty=format:'%x09 %h %ar ("%an") %s'
```

Respuesta:

```
$ git log --graph --pretty=format:'%x09 %h %ar ("%an") %s'  
* 509d01b 2 minutes ago ("SandroCJ210") Initial commit with README.md  
* 53e28c0 60 minutes ago ("SandroCJ210") update activity 2  
* 15a6b8e 8 hours ago ("SandroCJ210") add activity 1 and activity 2 pp  
* 2990c12 10 hours ago ("SandroCJ210") Initial commit
```