



FACULTAD DE INGENIERÍA

CARRERA DE INGENIERÍA DE SISTEMAS COMPUTACIONALES

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Curso: TÉCNICAS DE PROGRAMACIÓN ORIENTADA A OBJETOS

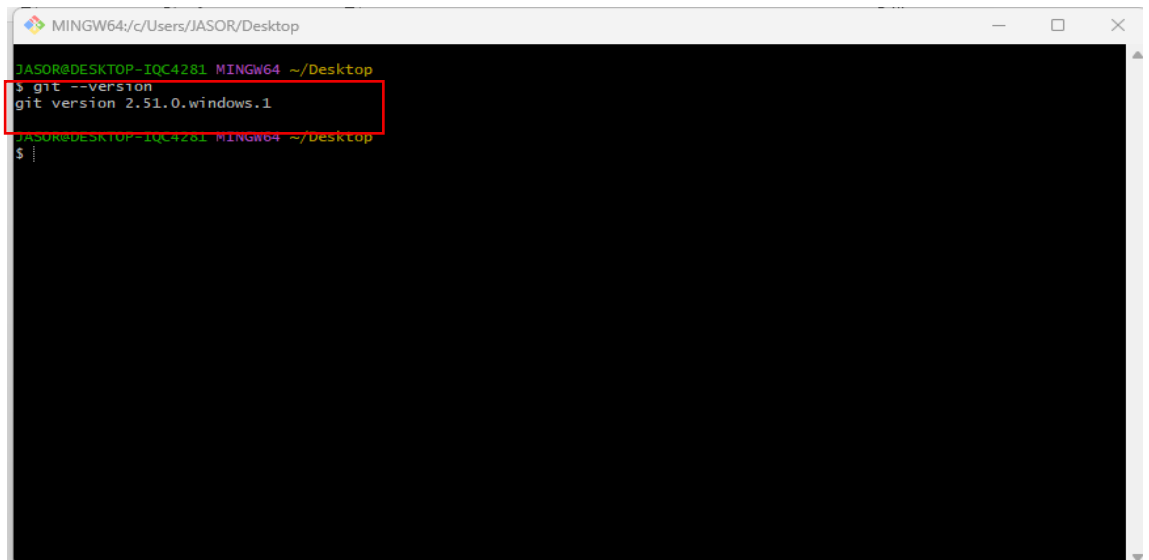
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Lima – Perú

2025-2

TAREA DE CAMPO SEMANA N° 1

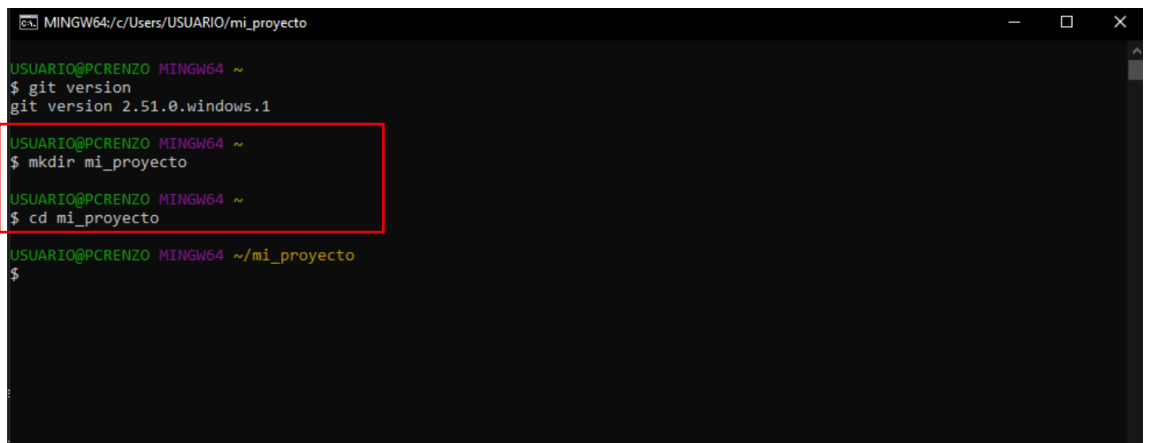
1. Desarrollar guía de primeros pasos con Git.



A screenshot of a MINGW64 terminal window. The title bar shows the path 'MINGW64:/c/Users/JASOR/Desktop'. The prompt is 'JASOR@DESKTOP-IQC4261 MINGW64 ~/Desktop'. The user enters 'git --version' and the output is 'git version 2.51.0.windows.1'. These two lines are enclosed in a red rectangular box.

```
JASOR@DESKTOP-IQC4261 MINGW64 ~/Desktop
$ git --version
git version 2.51.0.windows.1
JASOR@DESKTOP-IQC4261 MINGW64 ~/Desktop
$
```

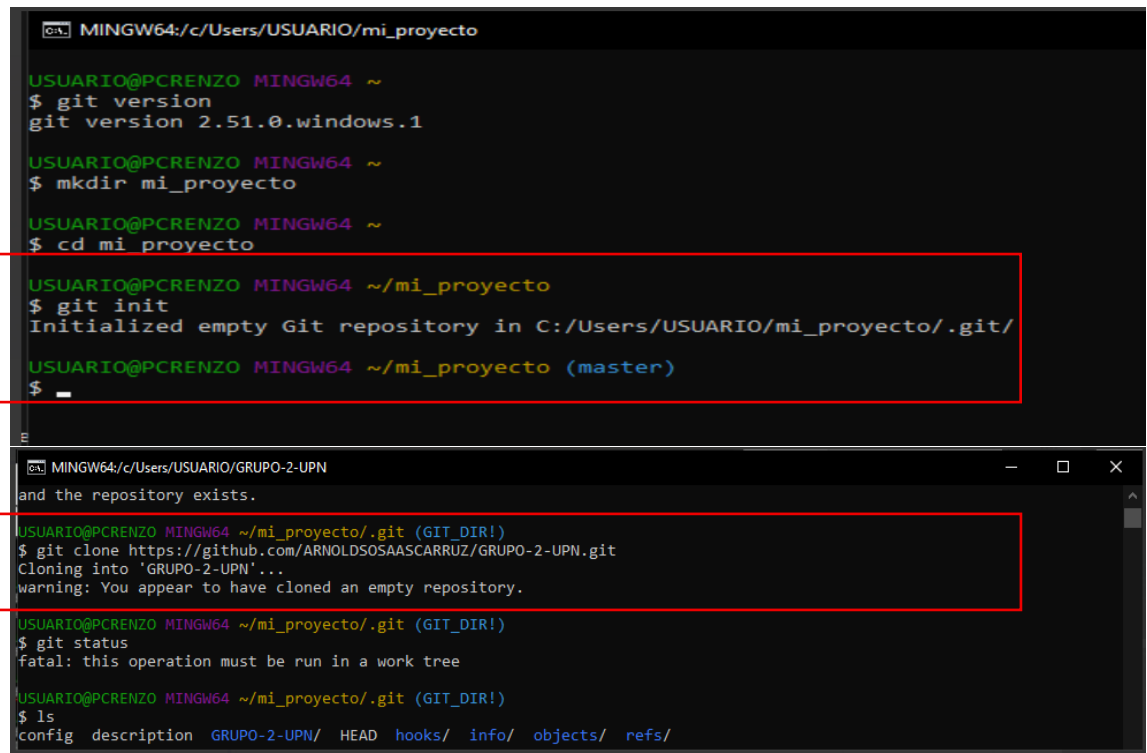
2. Creación de repositorio local.



A screenshot of a MINGW64 terminal window. The title bar shows the path 'MINGW64:/c/Users/USUARIO/mi_proyecto'. The prompt is 'USUARIO@PCRENZO MINGW64 ~'. The user enters 'git version' and the output is 'git version 2.51.0.windows.1'. Then, the user enters 'mkdir mi_proyecto' and 'cd mi_proyecto'. These three lines are enclosed in a red rectangular box. The final prompt is 'USUARIO@PCRENZO MINGW64 ~/mi_proyecto'.

```
USUARIO@PCRENZO MINGW64 ~
$ git version
git version 2.51.0.windows.1
USUARIO@PCRENZO MINGW64 ~
$ mkdir mi_proyecto
USUARIO@PCRENZO MINGW64 ~
$ cd mi_proyecto
USUARIO@PCRENZO MINGW64 ~/mi_proyecto
$
```

3. clonar un repositorio de GitHub a la máquina local.



```
MINGW64:/c/Users/USUARIO/mi_proyecto

USUARIO@PCRENZO MINGW64 ~
$ git version
git version 2.51.0.windows.1

USUARIO@PCRENZO MINGW64 ~
$ mkdir mi_proyecto

USUARIO@PCRENZO MINGW64 ~
$ cd mi_proyecto

USUARIO@PCRENZO MINGW64 ~/mi_proyecto
$ git init
Initialized empty Git repository in C:/Users/USUARIO/mi_proyecto/.git/

USUARIO@PCRENZO MINGW64 ~/mi_proyecto (master)
$ _

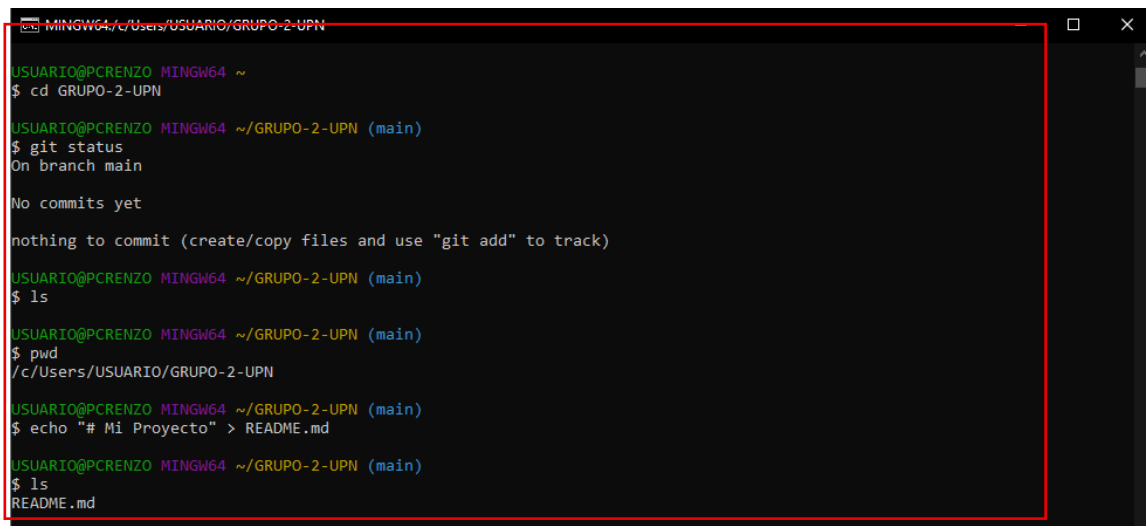
MINGW64:/c/Users/USUARIO/GRUPO-2-UPN
and the repository exists.

USUARIO@PCRENZO MINGW64 ~/mi_proyecto/.git (GIT_DIR!)
$ git clone https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
Cloning into 'GRUPO-2-UPN'...
warning: You appear to have cloned an empty repository.

USUARIO@PCRENZO MINGW64 ~/mi_proyecto/.git (GIT_DIR!)
$ git status
fatal: this operation must be run in a work tree

USUARIO@PCRENZO MINGW64 ~/mi_proyecto/.git (GIT_DIR!)
$ ls
config  description  GRUPO-2-UPN/  HEAD  hooks/  info/  objects/  refs/
```

4. Navegación básica por el repositorio.



```
MINGW64:/c/Users/USUARIO/GRUPO-2-UPN

USUARIO@PCRENZO MINGW64 ~
$ cd GRUPO-2-UPN

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git status
On branch main

No commits yet

nothing to commit (create/copy files and use "git add" to track)

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ ls

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ pwd
/c/Users/USUARIO/GRUPO-2-UPN

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ echo "# Mi Proyecto" > README.md

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ ls
README.md
```

5. Primer commit. Realizar cambios en el código.

```
MINGW64/c/Users/USUARIO/GRUPO-2-UPN

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git commit -m "Primer commit de prueba"
[main (root-commit) 0fc239a] Primer commit de prueba
1 file changed, 1 insertion(+)
create mode 100644 README.md

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ echo "Nueva modificación RB en GIT" >> README.md

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ cat README.md
# Mi Proyecto
Nueva modificación RB en GIT

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)

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:   README.md

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

6. Utilizar comandos git add y git commit.

```
MINGW64/c/Users/USUARIO/GRUPO-2-UPN

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git commit -m "Actualizado README.md un nuevo cambio"
[main 9dce599] Actualizado README.md un nuevo cambio
1 file changed, 1 insertion(+)

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ log
bash: log: command not found

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git log
commit 9dce5990eb34755a565e5875fea89e466680fe1 (HEAD -> main)
Author: RenzoBaluarte <N00449330@upn.pe>
Date:   Fri Aug 29 20:25:45 2025 -0500

    Actualizado README.md un nuevo cambio

commit 0fc239a643fa008671d649d33b0e572c6ee71325
Author: RenzoBaluarte <N00449330@upn.pe>
Date:   Fri Aug 29 20:11:47 2025 -0500

    Primer commit de prueba

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git log --oneline
9dce599 (HEAD -> main) Actualizado README.md un nuevo cambio
0fc239a Primer commit de prueba
```

7. Visualizar historial de commits.

```
MINGW64/c/Users/USUARIO/GRUPO-2-UPN

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git log --oneline
9dce599 (HEAD -> main) Actualizado README.md un nuevo cambio
0fc239a Primer commit de prueba
```

8. Manejo de branches y merges.

```
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (nueva-rama)
$ git branch
* main
  nueva-rama

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (nueva-rama)
$ echo "Cambio hecho en la rama nueva RB" >> README.md

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (nueva-rama)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (nueva-rama)
$ git commit -m "Agregado texto de prueba desde nueva-rama"
[nueva-rama 5e6b319] Agregado texto de prueba desde nueva-rama
1 file changed, 1 insertion(+)
```

```
MINGW64/c/Users/USUARIO/GRUPO-2-UPN
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git merge nueva-rama
Updating 9dce599..5e6b319
Fast-forward
 README.md | 1 +
1 file changed, 1 insertion(+)
```

9. Crear y cambiar entre ramas (branches) utilizando comandos git Branch y git checkout.

```
MINGW64:/c/Users/USUARIO/GRUPO-2-UPN
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git branch nueva-rama

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git checkout nueva-rama
Switched to branch 'nueva-rama'
```

```
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (nueva-rama)
$ git checkout main
Switched to branch 'main'
Your branch is based on 'origin/main', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)
```

10. Fusión de branches.

```
MINGW64:/c/Users/USUARIO/GRUPO-2-UPN
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git merge nueva-rama
Updating 9dce599..5e6b319
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git push
info: please complete authentication in your browser...
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (9/9), 819 bytes | 819.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
 * [new branch]      main -> main

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$
```

TAREA DE CAMPO SEMANA N° 2

1. Realizar cambios en una rama y fusionarlos con la rama principal.

```
JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git add README2.md
warning: in the working copy of 'README2.md', LF will be replaced by CRLF the n
ext time Git touches it

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git commit -m "Creación de nueva branch y archivo"
[tcampo2 5601d28] Creación de nueva branch y archivo
 2 files changed, 2 insertions(+), 3 deletions(-)
 create mode 100644 README2.md

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git push
fatal: The current branch tcampo2 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin tcampo2

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git push --set-upstream origin tcampo2
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git push --set-upstream origin tcampo2
fatal: User canceled device code authentication
error: unable to read askpass response from 'C:/Program Files/Git/mingw64/bin/git-askpass.exe'
Username for 'https://github.com':
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git/'

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git push --set-upstream origin tcampo2
info: please complete authentication in your browser...
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 300 bytes | 300.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'tcampo2' on GitHub by visiting:
remote:   https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN/pull/new/tcampo2
remote:
remote: To https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
* [new branch]      tcampo2 -> tcampo2
branch 'tcampo2' set up to track 'origin/tcampo2'.
```

2. Uso de git merge para combinar ramas.

```
JASOR@DESKTOP-IQC4281 MINGW64 /c/P00-UPN/GitHub/GRUPO-2-UPN (tcampo2)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

JASOR@DESKTOP-IQC4281 MINGW64 /c/P00-UPN/GitHub/GRUPO-2-UPN (main)
$ git merge tcampo2
Updating 5e6b319..5601d28
Fast-forward
 README.md | 4 +---
 README2.md | 1 +
 2 files changed, 2 insertions(+), 3 deletions(-)
 create mode 100644 README2.md

JASOR@DESKTOP-IQC4281 MINGW64 /c/P00-UPN/GitHub/GRUPO-2-UPN (main)
$
```

3. Resolución de conflictos.

Conflicto: No se guardó correctamente.

```
MINGW64/c/Users/USUARIO/GRUPO-2-UPN
rama-3
rama-4
remotes/origin/main

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-4)
$ git checkout -b rama-4
fatal: a branch named 'rama-4' already exists

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-4)
$ git checkout -b rama-5
Switched to a new branch 'rama-5'

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ echo "<!-- Comentario nuevo agregado en rama-5 -->" >> README.md
bash: !-: event not found

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ echo "<!-- Comentario nuevo agregado en rama-5 -->" >> README.md

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ git checkout main
error: Your local changes to the following files would be overwritten by checkout:
      README.md
Please commit your changes or stash them before you switch branches.
Aborting

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$
```

Resolución: Precedimos a guardar de manera correcta.

```
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ git commit -m
error: switch `m' requires a value

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ git commit -m "Comentario nuevo agregado en rama-5"
[rama-5 08f73b9] Comentario nuevo agregado en rama-5
 1 file changed, 1 insertion(+)

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$
```


4. Colaboración en GitHub.

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Models

Webhooks

Copilot

Environments

Codespaces

Pages

Security

Advanced Security

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

Collaborators and teams

Public repository
This repository is public and visible to anyone

Manage visibility

Direct access
4 entities have access to this repository. [2 collaborators](#), [2 invitations](#).

Manage access

Preview

Add people

Select all

Type

Find a collaborator...

<input type="checkbox"/>	JOWIUPN Collaborator		
<input type="checkbox"/>	LuisEquinonesP Awaiting LuisEquinonesP's response	Pending Invite	
<input type="checkbox"/>	PaULRS29 Awaiting PaULRS29's response	Pending Invite	
<input type="checkbox"/>	RenzoBaluarte Collaborator		

5. Invitar a compañeros a colaborar en el repositorio.

+

ARNOLDSOSAASCARRUZ invited you to collaborate
on
ARNOLDSOSAASCARRUZ/GRUPO-2-UPN

[Accept invitation](#) [Decline invitation](#)

Owners of GRUPO-2-UPN will be able to see:

- Your public profile information
- [Certain activity](#) within this repository
- Country of request origin
- Your access level for this repository
- Your IP address

Is this user sending spam or malicious content?
[Block ARNOLDSOSAASCARRUZ](#)

6. Clonar un repositorio compartido.

```
MINGW64:/c/POO-UPN/GitHub
JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub
$ git clone https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
Cloning into 'GRUPO-2-UPN'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 9 (delta 0), reused 9 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), done.

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub
$
```

7. Pull request: realizar cambios en una rama y crear un Pull Request en GitHub.

```
JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (main)
$ git merge tcampo2
Updating 5e6b319..5601d28
Fast-forward
 README.md | 4 +---
 READMME2.md | 1 +
 2 files changed, 2 insertions(+), 3 deletions(-)
 create mode 100644 READMME2.md

JASOR@DESKTOP-IQC4281 MINGW64 /c/POO-UPN/GitHub/GRUPO-2-UPN (main)
$
```

Request-1 #1

 **Merged** ARNOLDSOSAAS... merged 1 commit into `main` from `tcampo2`  now

 Conversation 0  Commits 1  Checks 0  Files changed 2



ARNOLDSOSAASCARRUZ commented 2 minutes ago

Owner ...

Hola Mundo!



Creación de nueva branch y archivo

5681d28



ARNOLDSOSAASCARRUZ merged commit 48d1576 into `main` now

Revert



Pull request successfully merged and closed

Delete branch

You're all set — the `tcampo2` branch can be safely deleted.



Add a comment

Write Preview

H B I           

Add your comment here...

```
USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (rama-5)
$ git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 2 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$ git pull
Updating 5e6b319..48d1576
Fast-forward
 README.md      | 4 +---
 READMEME2.md   | 1 +
 2 files changed, 2 insertions(+), 3 deletions(-)
 create mode 100644 READMEME2.md

USUARIO@PCRENZO MINGW64 ~/GRUPO-2-UPN (main)
$
```

8. Evidenciar revisión de código.

The screenshot displays a GitHub commit page for commit 48d1576, authored by ARNOLDSOSAASCARRUZ 18 minutes ago. The commit is a merge pull request #1 from ARNOLDSOSAASCARRUZ/tcampo2. The commit message is "Request-1". The commit is on the main branch (#1).

The file changes section shows 2 files changed: README.md and README2.md. The changes are summarized as +2 -3 lines changed.

README.md changes:

- Line 1: - # Mi Proyecto
- Line 2: - Nueva modificación RB en GIT
- Line 3: - Cambio hecho en la rama nueva RB
- Line 1: + #Repositorio Git

README2.md changes:

- Line 1: + #Repositorio Git

The comments section shows 2 comments. The first comment is from LuisEQuinonesP 4 minutes ago, stating "Buen cambio, realizado para evidenciar el trabajo en grupo". The second comment is from ARNOLDSOSAASCARRUZ 2 minutes ago, stating "Hola".

CASOS: ESTRUCTURA DEL REPOSITORIO

POO-Git-Casos/

|-----caso1/

| |_____| UsuarioSimple.java

|-----caso2/

| |_____| EstudianteInteractivo.java

|-----caso3/

| |_____| CuentaBancaria.java

|-----guia.git.md

|-----Informe_Final.pdf

|-----README.md

CASO 1: Lectura de datos simples con Scanner

Consigna: Desarrolla un programa en Java que solicite datos por teclado usando la clase Scanner. El programa debe ser guardado en la carpeta `caso1/` y subido al repositorio con commits explicativos.

```
RegistroUsuario.java x
1  import java.util.Scanner;
2
3  public class RegistroUsuario {
4      public static void main(String[] args) {
5          Scanner scanner = new Scanner(System.in);
6
7          System.out.print("Ingrese su nombre de usuario: ");
8          String nombreUsuario = scanner.nextLine();
9
10         System.out.print("Ingrese su contraseña: ");
11         String contrasena = scanner.nextLine();
12
13         System.out.print("Confirme su contraseña: ");
14         String confirmarContrasena = scanner.nextLine();
15
16         if (!contrasena.equals(confirmarContrasena)) {
17             System.out.println("Error: Las contraseñas no coinciden.");
18             return;
19         }
20
21         System.out.print("Ingrese su correo electrónico: ");
22         String correoElectronico = scanner.nextLine();
23
24         if (!correoElectronico.contains("@")) {
25             System.out.println("Error: El correo electrónico debe contener '@'.");
26             return;
27         }
28
29         System.out.println("Registro exitoso buena. Bienvenido, " + nombreUsuario + "!");
30     }
31 }
```

```
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  .env
  P00-Git-Casos/caso1/Estudiante.java

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN (main)
$ git add P00-Git-Casos/caso1/Estudiante.java

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN (main)
$ git commit -m "Agregando caso1 - Estudiante.java"
[main 5837c95] Agregando caso1 - Estudiante.java
 2 files changed, 66 insertions(+)
 create mode 100644 P00-Git-Casos/caso1/Estudiante.java
 create mode 100644 n1/READMME2.md

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)
```

CASO 2: Clase Estudiante con atributos privados

Consigna: Implementa una clase Java llamada 'Estudiante' con atributos privados, constructor y métodos 'get/set'. El estudiante debe ser creado desde el método 'main()' y sus datos deben ser mostrados con uso de Scanner. Publica tu código en 'caso2/'.



```
Estudiante.java x
Java file  import java.util.Scanner;

2
3  public class Estudiante {
4      // Atributos privados
5      private String nombre;
6      private int edad;
7      private String dni;
8
9      // Constructor
10     public Estudiante(String nombre, int edad, String dni) {
11         this.nombre = nombre;
12         this.edad = edad;
13         this.dni = dni;
14     }
15
16     // Métodos get
17     public String getNombre() {
18         return nombre;
19     }
20
21     public int getEdad() {
22         return edad;
23     }
24
25     public String getDni() {
26         return dni;
27     }
28
29     // Métodos set
30     public void setNombre(String nombre) {
31         this.nombre = nombre;
32     }
33
34     public void setEdad(int edad) {
35         this.edad = edad;
```

LightEdit mode. [Access full IDE](#) ▾

```
public void setEdad(int edad) {
    this.edad = edad;
}

public void setDni(String dni) {
    this.dni = dni;
}

// Método main para crear y mostrar un estudiante
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);

    // Solicitar datos al usuario
    System.out.print("Ingrese el nombre del estudiante: ");
    String nombre = scanner.nextLine();

    System.out.print("Ingrese la edad del estudiante: ");
    int edad = scanner.nextInt();
    scanner.nextLine(); // Limpiar buffer

    System.out.print("Ingrese el DNI del estudiante: ");
    String dni = scanner.nextLine();

    // Crear objeto Estudiante
    Estudiante estudiante = new Estudiante(nombre, edad, dni);

    // Mostrar datos usando getters
    System.out.println("Nombre: " + estudiante.getNombre());
    System.out.println("Edad: " + estudiante.getEdad());
    System.out.println("DNI: " + estudiante.getDni());
}
}
```

```
JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../.env
    caso2/

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

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ git add caso2/

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   caso2/Estudiante.java

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

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ git commit -m "Agregando caso2 - estudiante.java"
[main 4eeab48] Agregando caso2 - estudiante.java
1 file changed, 65 insertions(+)
create mode 100644 P00-Git-Casos/caso2/Estudiante.java

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

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

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

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 337 bytes | 168.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
   bd21ab1..4eeab48  main -> main

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/P00-Git-Casos (main)
$ |
```


CASO 3: Clase CuentaBancaria con validación

Consigna: Crea una clase Java llamada 'CuentaBancaria' que permita operaciones básicas como depositar y retirar, validando que no se retire más del saldo. Usa Scanner para el ingreso de datos. El código debe estar en la carpeta 'caso3/' con commits bien documentados.

```
1  import java.util.Scanner;
2
3  public class CuentaBancaria {
4      // Atributos privados
5      private String titular;
6      private double saldo;
7
8      // Constructor
9      public CuentaBancaria(String titular, double saldoInicial) {
10         this.titular = titular;
11         this.saldo = saldoInicial;
12     }
13
14     // Método para depositar
15     public void depositar(double monto) {
16         if (monto > 0) {
17             saldo += monto;
18             System.out.println("✅ Depósito exitoso. Nuevo saldo: S/ " + saldo);
19         } else {
20             System.out.println("⚠ El monto debe ser mayor que cero.");
21         }
22     }
23
24     // Método para retirar con validación
25     public void retirar(double monto) {
26         if (monto > saldo) {
27             System.out.println("❌ Fondos insuficientes. Saldo disponible: S/ " + saldo);
28         } else if (monto <= 0) {
29             System.out.println("⚠ El monto debe ser mayor que cero.");
30         } else {
31             saldo -= monto;
32             System.out.println("✅ Retiro exitoso. Nuevo saldo: S/ " + saldo);
33         }
34     }
35 }
```

```

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

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ ls
caso1/ caso2/ caso3/

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ../.env
    caso3/

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

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git add caso3/

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git commit -m "Agregando caso3 - CuentaBancaria.java"
[main e2f7294] Agregando caso3 - CuentaBancaria.java
 1 file changed, 68 insertions(+)
 create mode 100644 P00-Git-Casos/caso3/CuentaBancaria.java

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

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

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

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 1.09 KiB | 278.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
 4eeab48..e2f7294  main -> main

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ |

```

guia_git.md

```
JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ ls
caso1/  caso2/  caso3/  guia_git.md

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ git add guia_git.md

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ git commit -m "Agregando guia_git.md"
[main d81da6a] Agregando guia_git.md
1 file changed, 18 insertions(+)
create mode 100644 P00-Git-Casos/guia_git.md

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

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

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

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 801 bytes | 200.00 KiB/s, done.
Total 4 (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/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
   e2f7294..d81da6a  main -> main

JOWI@JOWI MINGW64 /d/VSCoDe/GRUPO-2-UPN/POO-Git-Casos (main)
$ |
```

Informe_Final.pdf

```
JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md

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

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ ls
Informe_Final.pdf  README.md  caso1/  caso2/  caso3/  guia_git.md

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md

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

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git add Informe_Final.pdf

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git commit -m "Agregando Informe_Final.pdf"
[main 261cdbc] Agregando Informe_Final.pdf
 2 files changed, 1 insertion(+), 1 deletion(-)
 create mode 100644 P00-Git-Casos/Informe_Final.pdf

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

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

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

README.md

```
JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 801 bytes | 200.00 KiB/s, done.
Total 4 (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/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
   e2f7294..d81da6a  main -> main

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git add README.md

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git commit -m "Agregando README.md"
[main 5cd183c] Agregando README.md
 1 file changed, 18 insertions(+)
 create mode 100644 P00-Git-Casos/README.md

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 629 bytes | 157.00 KiB/s, done.
Total 4 (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/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git
   d81da6a..5cd183c  main -> main

JOWI@JOWI MINGW64 /d/VSCode/GRUPO-2-UPN/P00-Git-Casos (main)
$ |
```

LINK DE REPOSITORIO GITHUB:

<https://github.com/ARNOLDSOSAASCARRUZ/GRUPO-2-UPN.git>