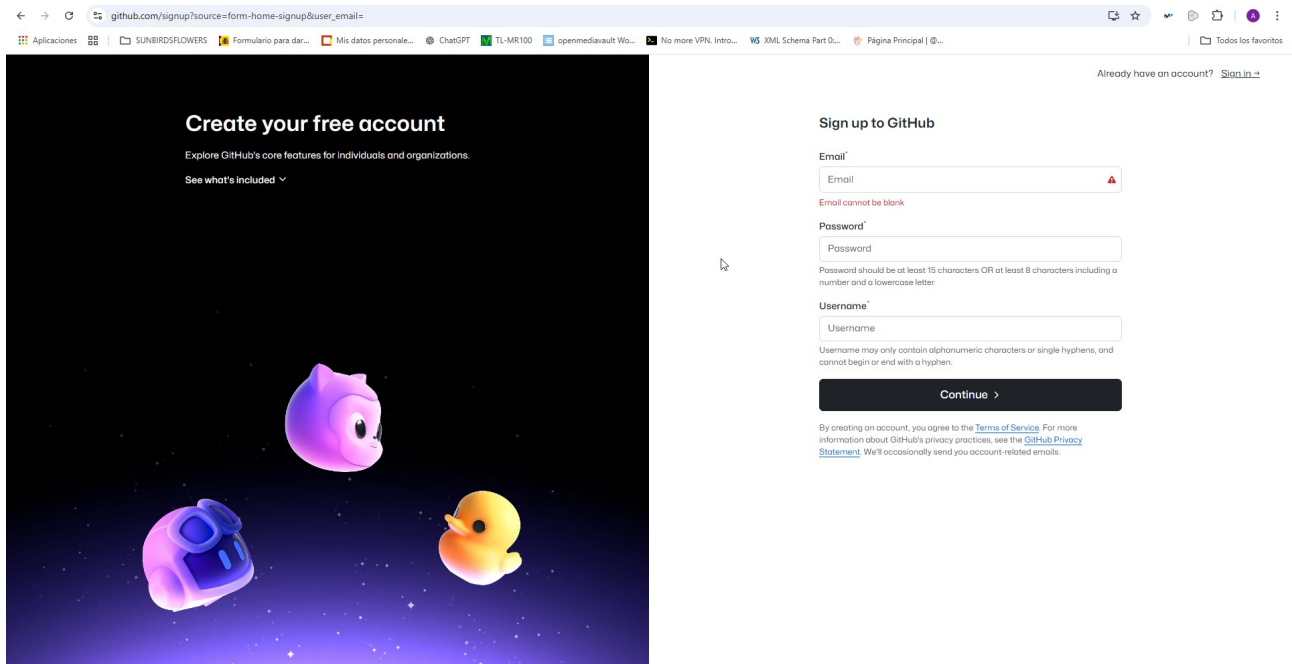


PROGRAMACIÓN DE INTELIGENCIA ARTIFICIAL

TAREA 1

Apartado 1: Crear cuenta en GitHub y crear un repositorio

Accedemos a la página de GITHUB y nos registramos.



github.com/signup?source=form-home-signup&user_email=

Aplicaciones SUNBIRDSFLOWERS Formulario para dar... Mis datos personale... ChatGPT TL-MR100 openmediavault Wo... No more VPN. Intro... VS XML Schema Part 0... Página Principal | @...

Already have an account? [Sign in](#)

Create your free account

Explore GitHub's core features for individuals and organizations.

[See what's included](#)

Sign up to GitHub

Email

Email cannot be blank

Password

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter

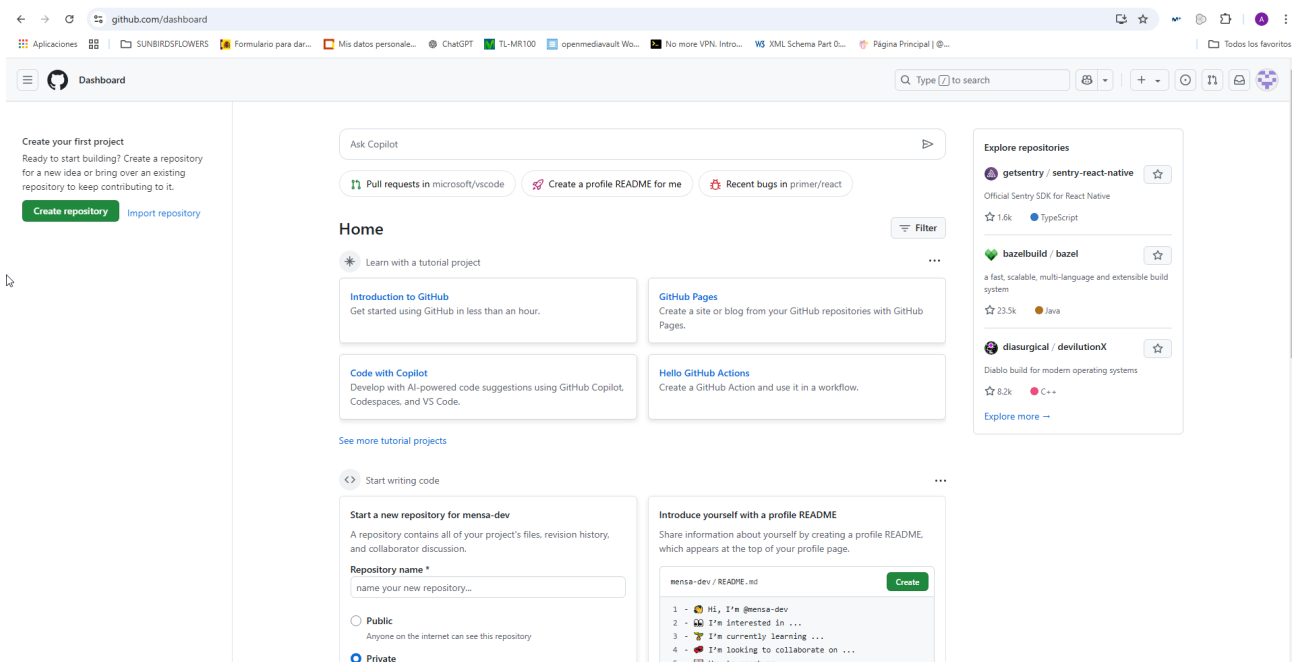
Username

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

[Continue](#)

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

Creamos nuestro nuevo repositorio.



github.com/dashboard

Aplicaciones SUNBIRDSFLOWERS Formulario para dar... Mis datos personale... ChatGPT TL-MR100 openmediavault Wo... No more VPN. Intro... VS XML Schema Part 0... Página Principal | @...

Dashboard

Search Type to search

Create your first project

Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

[Create repository](#) [Import repository](#)

Home

Learn with a tutorial project

[Introduction to GitHub](#)

Get started using GitHub in less than an hour.

[GitHub Pages](#)

Create a site or blog from your GitHub repositories with GitHub Pages.

[Code with Copilot](#)

Develop with AI-powered code suggestions using GitHub Copilot, Codespaces, and VS Code.

[Hello GitHub Actions](#)

Create a GitHub Action and use it in a workflow.

[See more tutorial projects](#)

Start writing code

[Start a new repository for mensa-dev](#)

A repository contains all of your project's files, revision history, and collaborator discussion.

Repository name *

name your new repository...

☐ Public

Anyone on the internet can see this repository

☒ Private

[Introduce yourself with a profile README](#)

Share information about yourself by creating a profile README, which appears at the top of your profile page.

mensa-dev / README.md

[Create](#)

```
1 - Hi, I'm @mensa-dev
2 - I'm interested in ...
3 - I'm currently learning ...
4 - I'm looking to collaborate on ...
5 - How to reach me ...
```

Explore repositories

[getsentry / sentry-react-native](#)

Official Sentry SDK for React Native

1.6k TypeScript

[bazelbuild / bazel](#)

a fast, scalable, multi-language and extensible build system

23.5k Java

[diasurgical / devlutionX](#)

Diablo build for modern operating systems

8.2k C++

[Explore more](#)

AplicacionesSUNBIRDSFLOWERSFormulario para dar...Mis datos personale...ChatGPTTL-MR100openmediavault Wo...No more VPN. Intro...WS XML Schema Part 0...Página Principal | @...Todos los favoritos

New repository

Q Type to search

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner *

Repository name *

MENSAKA-dev / TAREA_1

TAREA_1 is available.

Great repository names are short and memorable. Need inspiration? How about [jubilant-carnival](#) ?

Description (optional)

☐ Public

Anyone on the internet can see this repository. You choose who can commit.

☒ Private

You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: None

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

You are creating a private repository in your personal account.

Create repository

Añadimos un archivo PDF a la rama Principal.

github.com/MENSAKA-dev/TAREA_1

AplicacionesSUNBIRDSFLOWERSFormulario para dar...Mis datos personale...ChatGPTTL-MR100openmediavault Wo...No more VPN. Intro...WS XML Schema Part 0...Página Principal | @...Todos los favoritos

MENSAKA-dev / TAREA_1

Q Type to search

<> CodeIssuesPull requestsActionsProjectsSecurityInsightsSettings

TAREA_1Private

Unwatch1Fork0Star0

Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Get started with GitHub Copilot

Add collaborators to this repository

Search for people using their GitHub username or email address.

Invite collaborators

Quick setup — if you've done this kind of thing before

Set up in DesktoporHTTPSSSHhttps://github.com/MENSAKA-dev/TAREA_1.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# TAREA_1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/MENSAKA-dev/TAREA_1.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/MENSAKA-dev/TAREA_1.git
git branch -M main
git push -u origin main
```

TAREA_1 /

📄

Drag files here to add them to your repository

Or [choose your files](#)

👤

Commit changes

Add files via upload

Add an optional extended description...

Commit changes

Cancel

TAREA_1

Private

👁️ Unwatch 1

🍴 Fork 0

⭐ Star 0

🔗 main

🌿 1 Branch

🏷️ 0 Tags

🔍 Go to file

📄 Add file

<> Code

About

MENSAKA-dev

Add files via upload

f1cfe14 · 1 minute ago

🕒 1 Commit

📄 repo.pdf

Add files via upload

1 minute ago

📖 README

📖

Add a README

Add a README with an overview of your project.

Add a README

No description, website, or topics provided.

🔄 Activity

⭐ 0 stars

👁️ 1 watching

🍴 0 forks

Releases

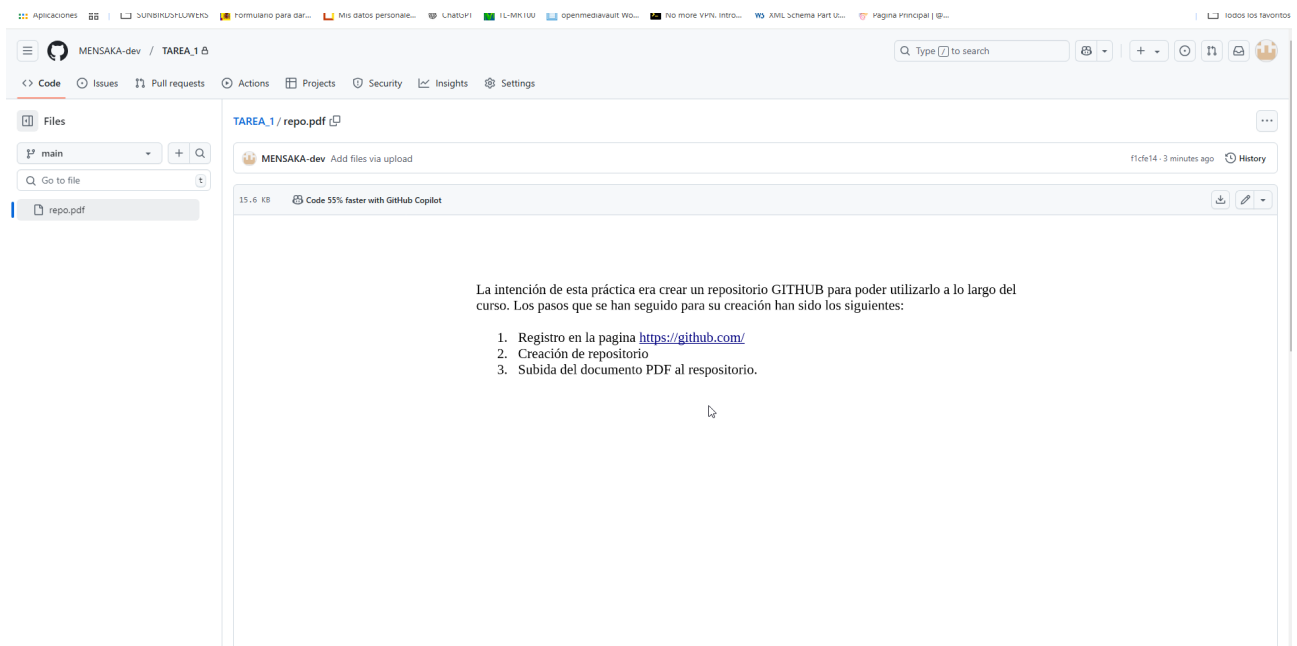
No releases published

Create a new release

Packages

No packages published

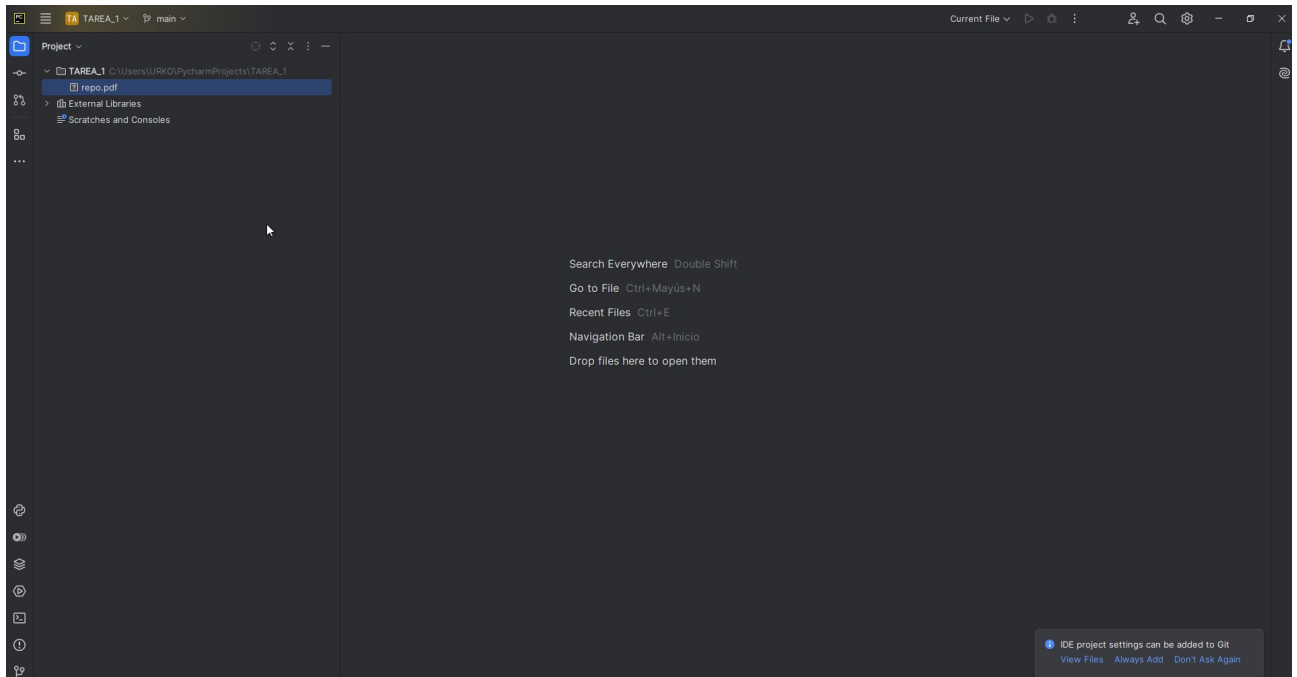
Publish your first package



Apartado 2: Resolver ciertos problemas en Python

Problema 1. División de una lista de enteros.

Clonamos en pycharm el repositorio que hemos creado.



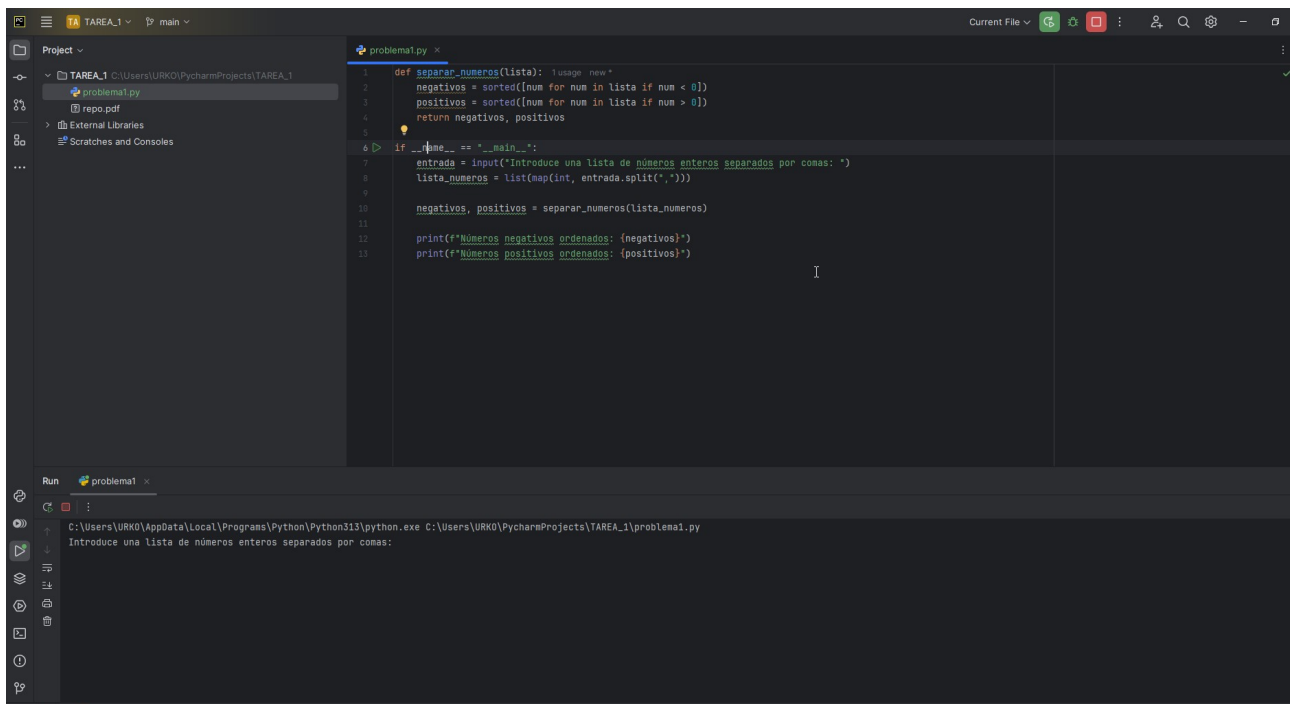
Añadimos un fichero llamado problema1.py y creamos el código para el primer ejercicio.

```
def separar_numeros(lista):
    negativos = sorted([num for num in lista if num < 0])
    positivos = sorted([num for num in lista if num > 0])
    return negativos, positivos

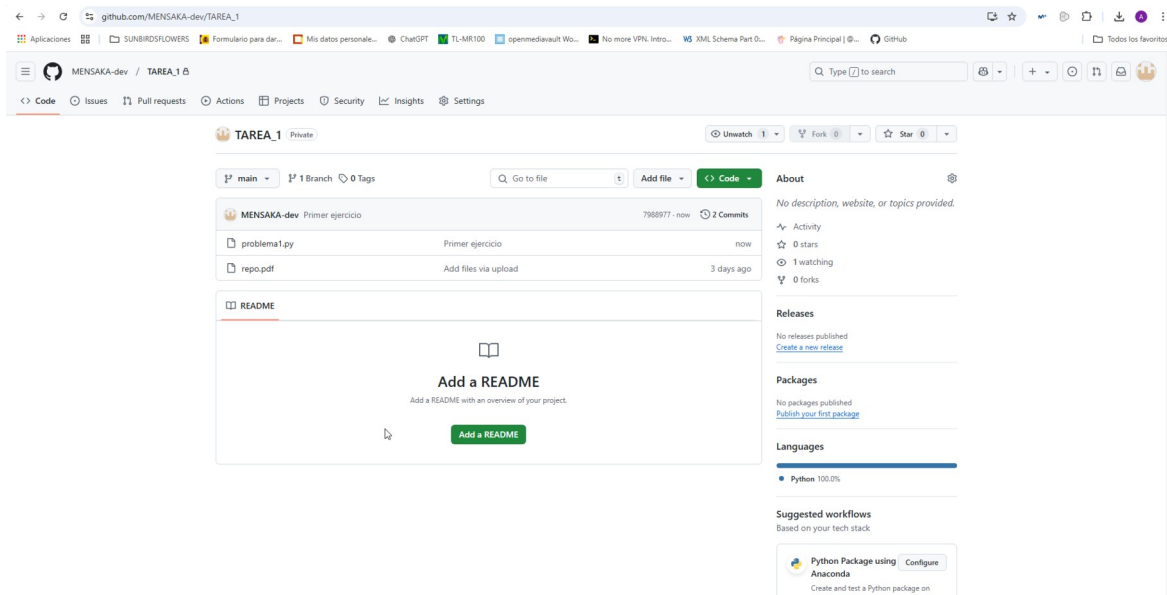
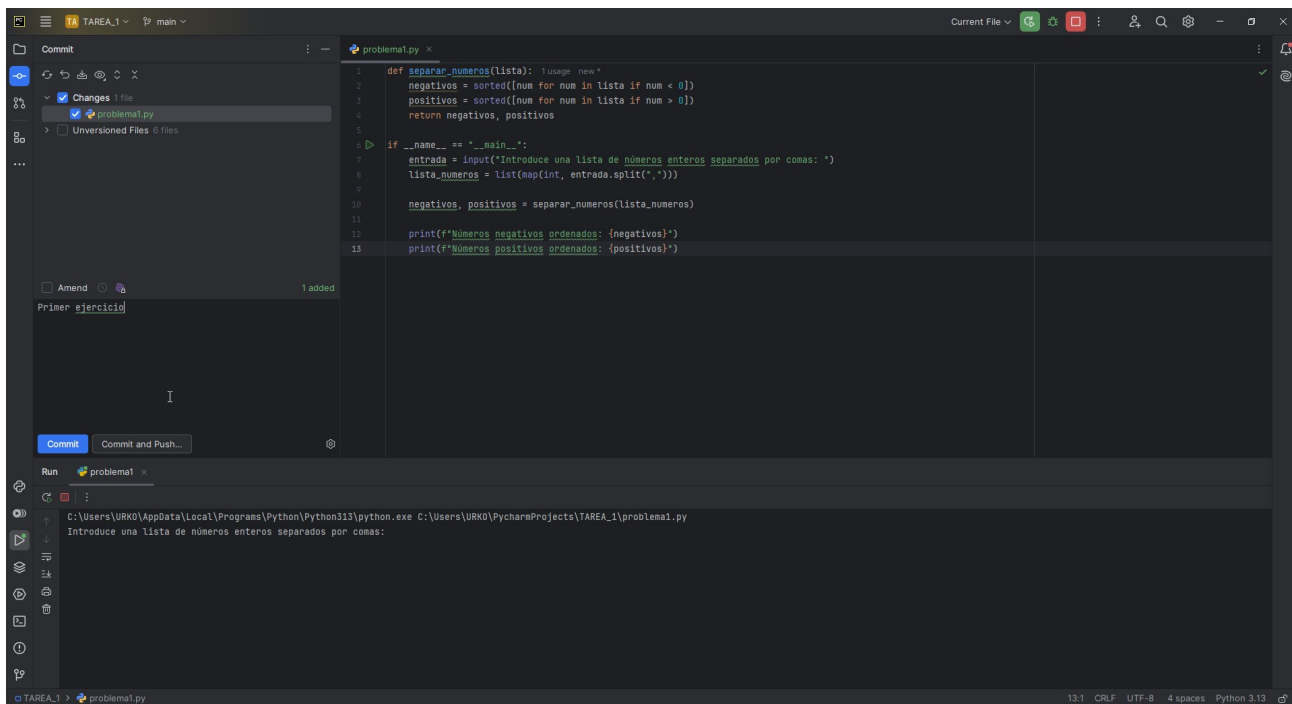
if __name__ == "__main__":
    entrada = input("Introduce una lista de números enteros separados por comas: ")
    lista_numeros = list(map(int, entrada.split(",")))

    negativos, positivos = separar_numeros(lista_numeros)

    print(f"Números negativos ordenados: {negativos}")
    print(f"Números positivos ordenados: {positivos}")
```



Realizamos un Commit and Push



Problema 2. Frecuencia de palabras en un texto.

Añadimos el código para el segundo ejercicio.

```

import string

def contar_palabras(texto):
    # Eliminar signos de puntuación y convertir a minúsculas
    texto = texto.translate(str.maketrans("", string.punctuation)).lower()

    # Dividir el texto en palabras
    palabras = texto.split()

```

```
# Contar frecuencias usando un diccionario
frecuencias = {}
for palabra in palabras:
    if palabra in frecuencias:
        frecuencias[palabra] += 1
    else:
        frecuencias[palabra] = 1

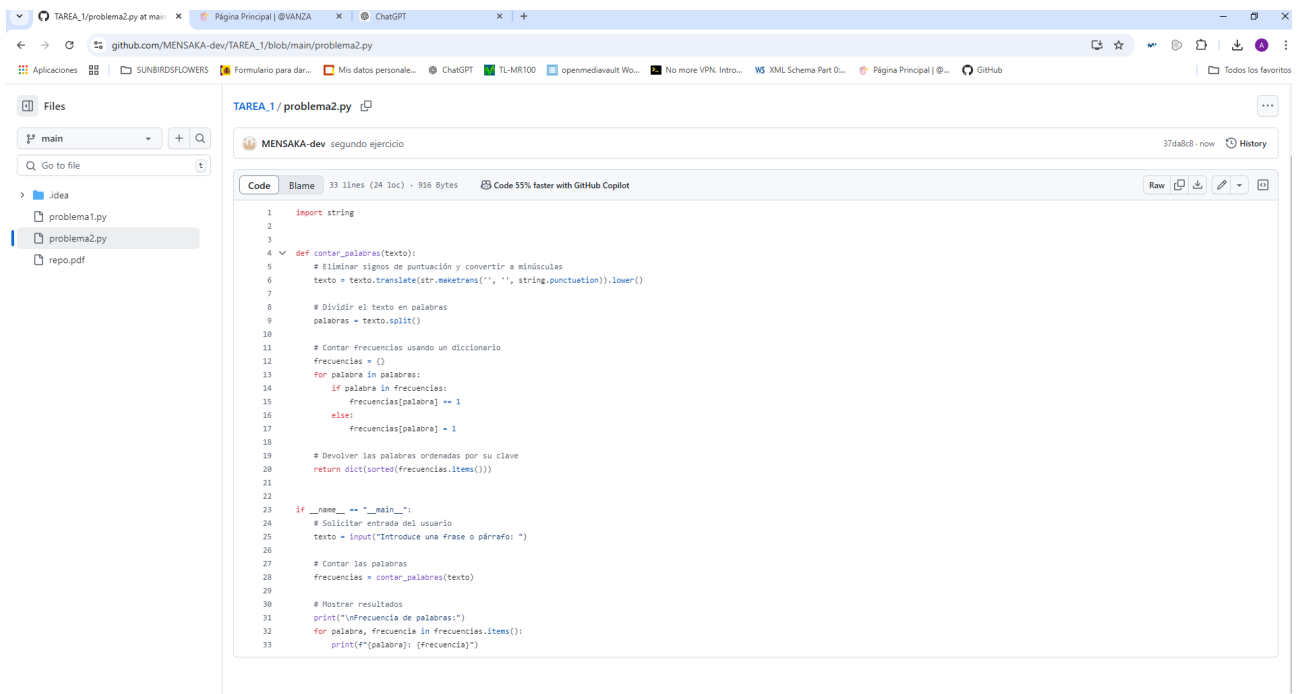
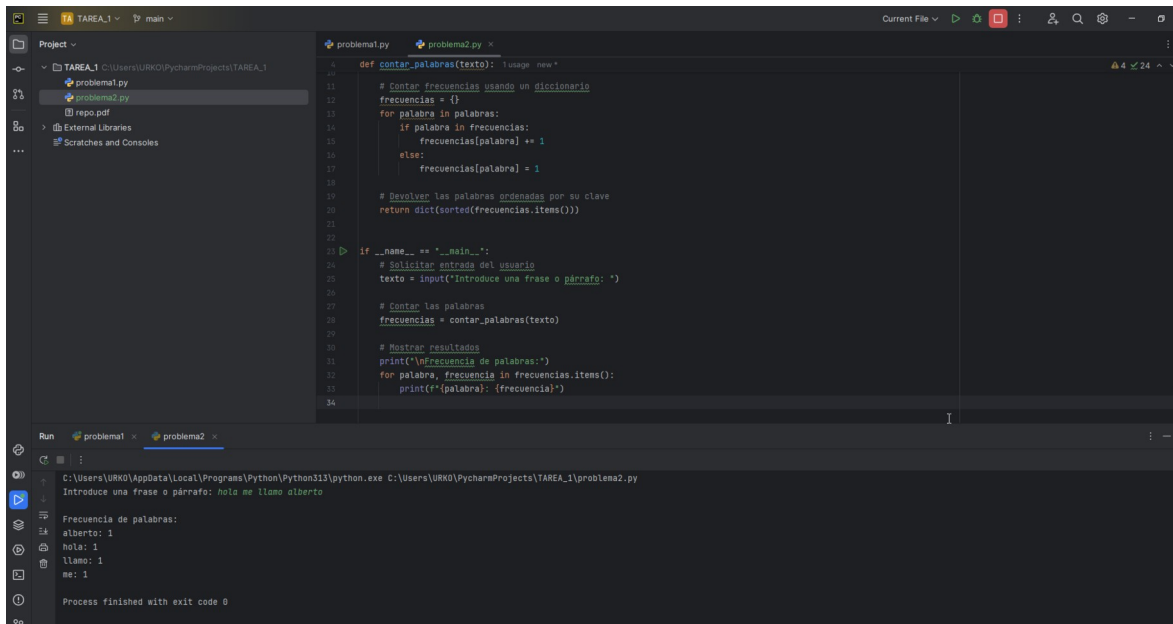
# Devolver las palabras ordenadas por su clave
return dict(sorted(frecuencias.items()))

if __name__ == "__main__":
    # Solicitar entrada del usuario
    texto = input("Introduce una frase o párrafo: ")

    # Contar las palabras
    frecuencias = contar_palabras(texto)

    # Mostrar resultados
    print("\nFrecuencia de palabras:")
    for palabra, frecuencia in frecuencias.items():
        print(f"{palabra}: {frecuencia}")
```

Realizamos un Commit and Push.



Problema 3. Intersección y unión de conjuntos

Añadimos el código para el tercer ejercicio.

```
def main():
    # Solicitar al usuario los dos conjuntos de números
    print("Introduce los elementos del primer conjunto, separados por comas:")
    conjunto1 = set(map(int, input().split(',')))

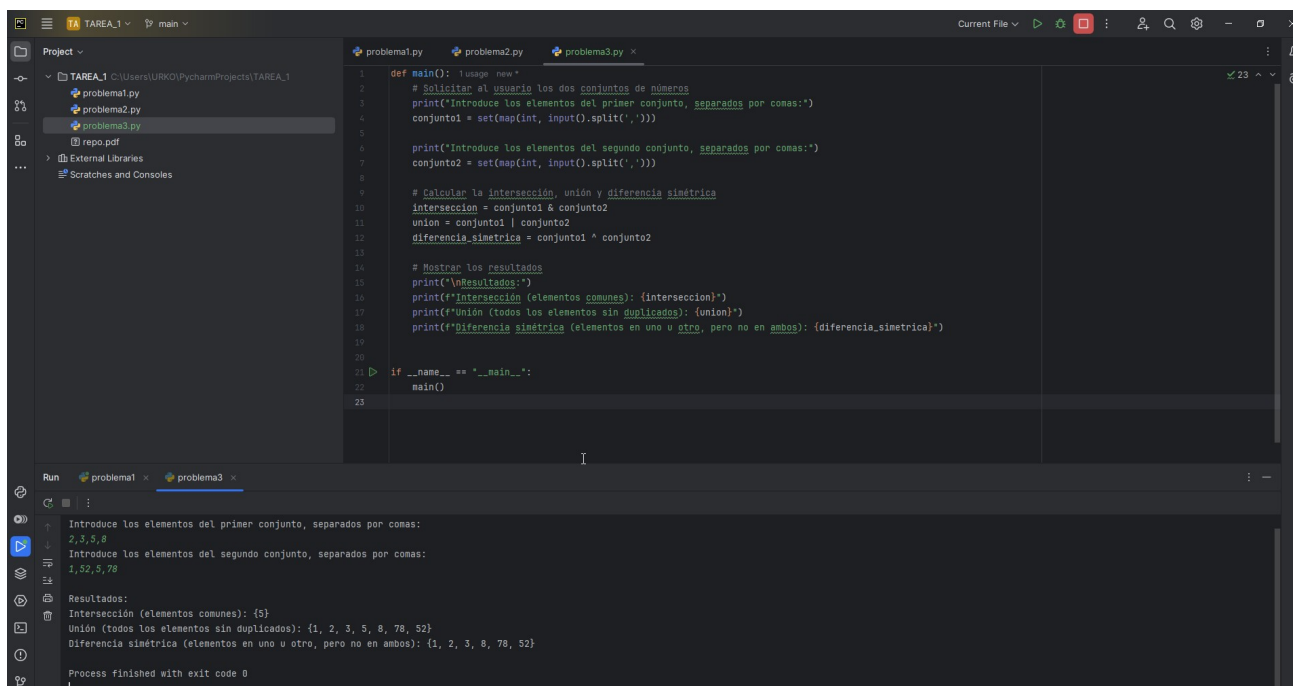
    print("Introduce los elementos del segundo conjunto, separados por comas:")
    conjunto2 = set(map(int, input().split(',')))

    # Calcular la intersección, unión y diferencia simétrica
    interseccion = conjunto1 & conjunto2
    union = conjunto1 | conjunto2
    diferencia_simetrica = conjunto1 ^ conjunto2

    # Mostrar los resultados
    print("\nResultados:")
    print(f"Intersección (elementos comunes): {interseccion}")
    print(f"Unión (todos los elementos sin duplicados): {union}")
    print(f"Diferencia simétrica (elementos en uno u otro, pero no en ambos): {diferencia_simetrica}")

if __name__ == "__main__":
    main()
```

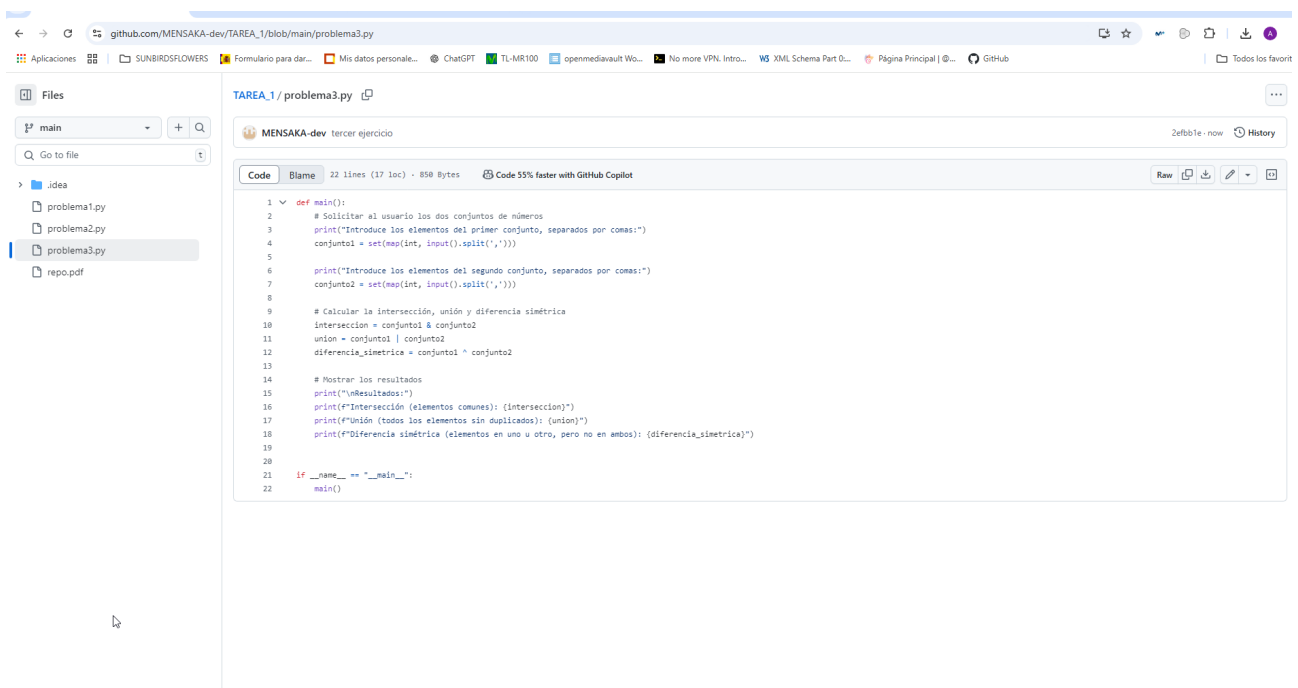
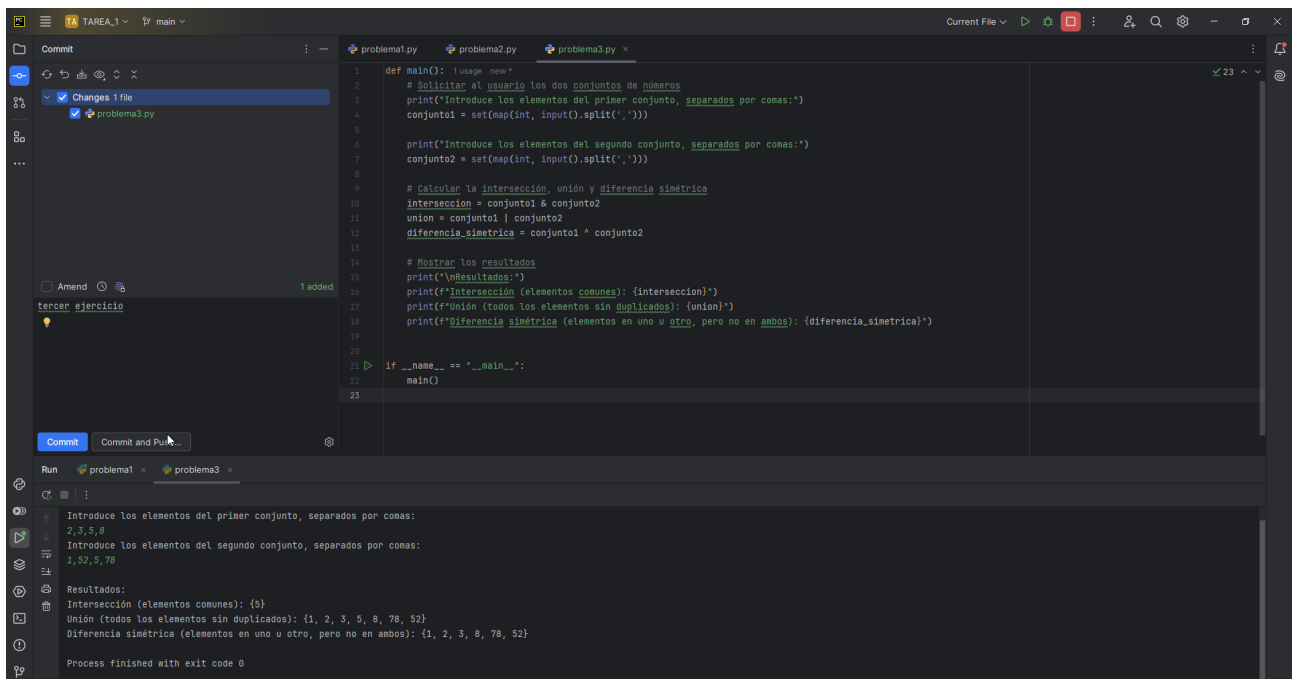
Realizamos Commit and Push.



The screenshot shows the PyCharm IDE with a project named 'TAREA_1'. The file explorer on the left shows three Python files: 'problema1.py', 'problema2.py', and 'problema3.py'. The main editor displays the code for 'problema3.py', which is the same code as shown in the previous block. The 'Run' console at the bottom shows the output of the program:

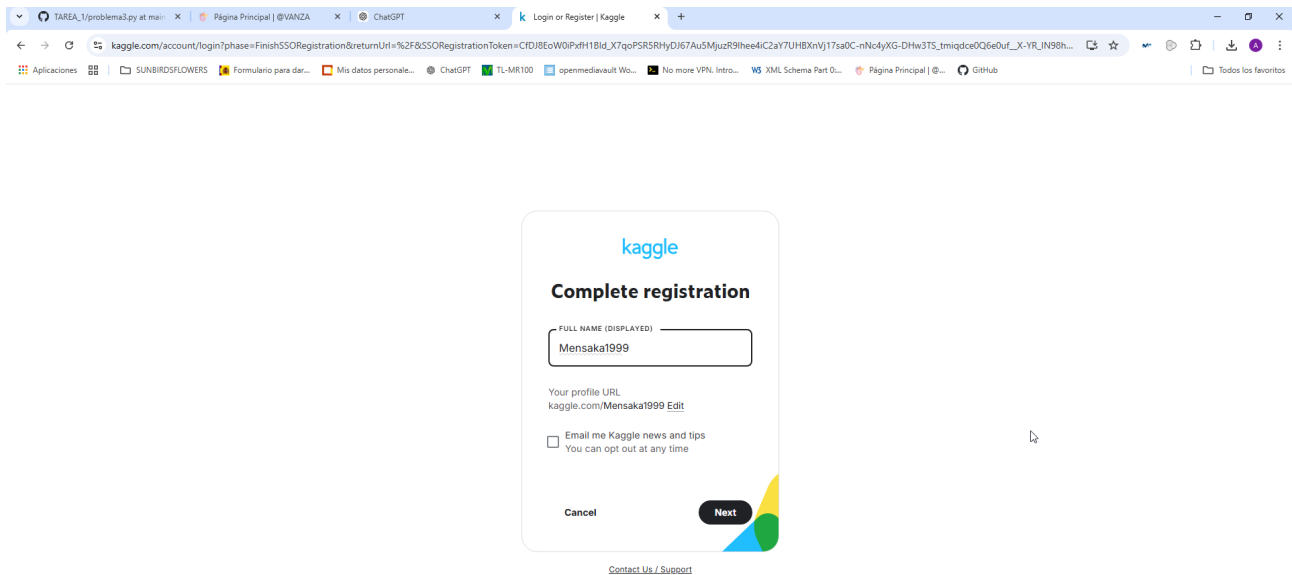
```
Introduce los elementos del primer conjunto, separados por comas:
2,3,5,8
Introduce los elementos del segundo conjunto, separados por comas:
1,5,2,5,7,8
Resultados:
Intersección (elementos comunes): {5}
Unión (todos los elementos sin duplicados): {1, 2, 3, 5, 8, 78, 52}
Diferencia simétrica (elementos en uno u otro, pero no en ambos): {1, 2, 3, 8, 78, 52}
```

The process finished with exit code 0.

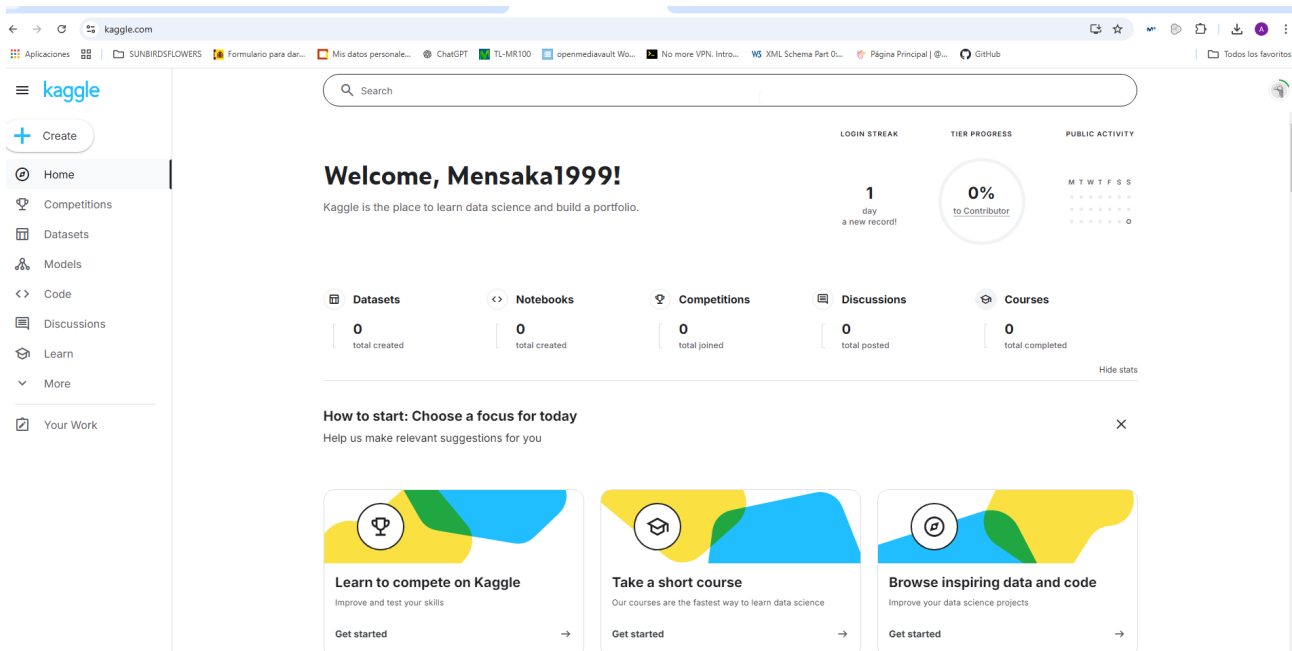


Apartado 3: Consultar competición en plataforma de IA Kaggle

Iniciamos el registro en Kaggle y lo hacemos a través de nuestra cuenta de GOOGLE.



Aparece la pantalla de bienvenida.



Pulsamos en la pestaña Competitions.

The screenshot shows the Kaggle website interface for the 'Titanic - Machine Learning from Disaster' competition. The left sidebar contains navigation links: Home, Competitions (selected), Datasets, Models, Code, Discussions, Learn, More, and Your Work. The main content area has a search bar and a navigation menu with links to Overview, Data, Code, Models, Discussion, Leaderboard, and Rules. The 'Overview' section is active, displaying a description of the competition, its host (Kaggle), prizes, participation statistics, and tags. A 'Table of Contents' link is visible at the bottom right.

Titanic - Machine Learning from Disaster

Start here! Predict survival on the Titanic and get familiar with ML basics

Overview

This competition runs indefinitely with a rolling leaderboard. [Learn more](#)

Description

Ahoy, welcome to Kaggle! You're in the right place.

This is the legendary Titanic ML competition – the best, first challenge for you to dive into ML competitions and familiarize yourself with how the Kaggle platform works.

If you want to talk with other users about this competition, come join our Discord! We've got channels for competitions, job postings and career discussions, resources, and socializing with your fellow data scientists. Follow the link here: <https://discord.gg/kaggle>

The competition is simple: use machine learning to create a model that predicts which passengers survived the Titanic shipwreck.

Read on or watch the video below to explore more details. Once you're ready to start competing, click on the 'Join' button.

Competition Host
Kaggle

Prizes & Awards
Knowledge
Does not award Points or Medals

Participation
1,345,116 Entrants
13,993 Participants
13,727 Teams
57,923 Submissions

Tags
Binary Classification
Tabular
Beginner
Categorization Accuracy

Table of Contents

Dentro de la competición, vamos a la sección de data y descargamos el dataset

The screenshot shows the 'Data' section of the Kaggle Titanic competition. The left sidebar is the same as in the previous image. The main content area has a navigation menu with links to Overview, Data (selected), Code, Models, Discussion, Leaderboard, and Rules. The 'Data' section displays information about the dataset, including a description of the 'gender_submission.csv' file and a 'Data Explorer' panel on the right.

Titanic - Machine Learning from Disaster

Overview **Data** Code Models Discussion Leaderboard Rules

gender = female, male, stepmother, stepfather
Spouse = husband, wife (mistresses and fiancés were ignored)

parch: The dataset defines family relations in this way...

Parent = mother, father
Child = daughter, son, stepdaughter, stepson
Some children travelled only with a nanny, therefore parch=0 for them.

gender_submission.csv (3.26 kB)

Detail Compact Column 2 of 2 columns

About this file

An example of what a submission file should look like.

These predictions assume only female passengers survive.

Data Explorer
93.08 kB
gender_submission.csv
test.csv
train.csv

Summary
3 files
25 columns

Download All

Subimos el documento de como hemos realizado el proceso a Github

The screenshot shows the GitHub interface for a repository named 'TAREA_1' under the 'MENSAKA-dev' organization. The repository is public and has 1 branch and 0 tags. The file list shows several files: '.idea', 'kaggle.odt', 'problema1.py', 'problema2.py', 'problema3.py', and 'repo.pdf'. The 'Add a README' section is visible, prompting the user to add a README file. The right sidebar shows repository statistics: 0 stars, 1 watching, 0 forks, and no releases or packages published. The languages section shows Python at 100.0%.

File Name	Upload Source	Time
.idea	segundo ejercicio	13 hours ago
kaggle.odt	Add files via upload	now
problema1.py	Primer ejercicio	13 hours ago
problema2.py	segundo ejercicio	13 hours ago
problema3.py	tercer ejercicio	13 hours ago
repo.pdf	Add files via upload	4 days ago

Y también subimos el archivo del dataset

The screenshot shows the same GitHub repository page for 'TAREA_1', but now with an additional file, 'titanic (1).zip', added to the file list. The repository statistics have updated to show 6 commits. The 'Add a README' section remains visible.

File Name	Upload Source	Time
.idea	segundo ejercicio	13 hours ago
kaggle.odt	Add files via upload	2 minutes ago
problema1.py	Primer ejercicio	13 hours ago
problema2.py	segundo ejercicio	13 hours ago
problema3.py	tercer ejercicio	13 hours ago
repo.pdf	Add files via upload	4 days ago
titanic (1).zip	Add files via upload	now

