



SECRETARÍA DE  
INNOVACIÓN



## **ESCUELA SUPERIOR DE INNOVACIÓN Y TECNOLOGÍA**

### **TSU EN SERVICIOS EN LA NUBE**

#### **ASIGNATURA**

LENGUAJE DE PROGRAMACION

#### **ALUMNO**

Liliana Patricia Serrano de Lemus.

#### **USUARIO AULA VIRTUAL**

Smelgar0786@gmail.com

#### **DOCENTE**

Jonathan Vladimir Mate Villanueva

#### **TAREA**

GUIA DE PRACTICA PARA LA UNIDAD 4

Calculadora de Dividas con Python

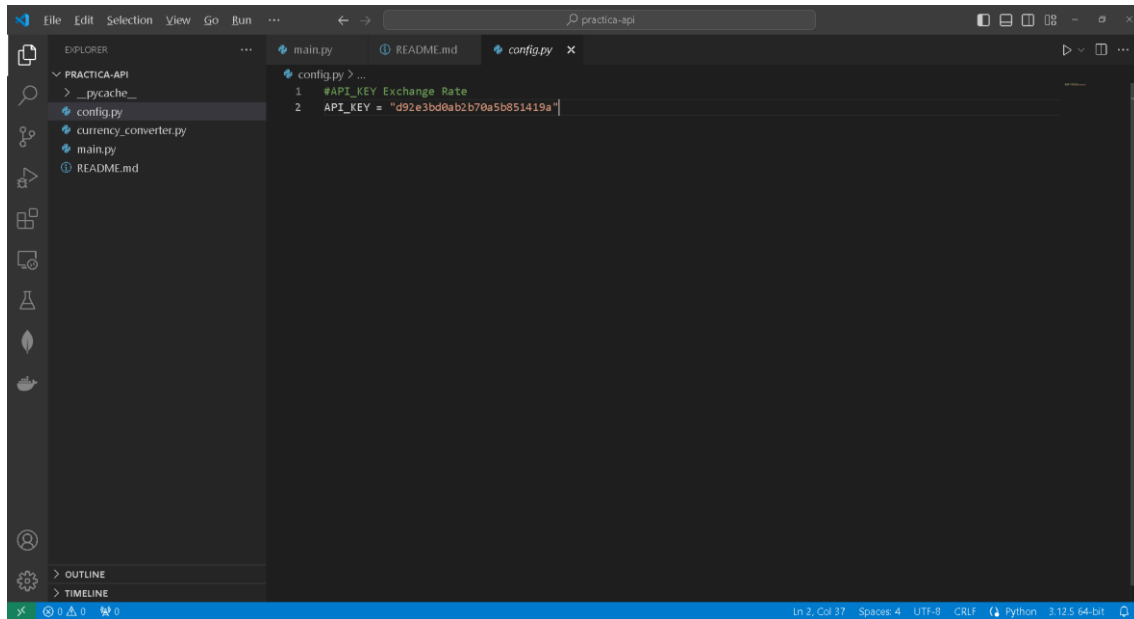
Uso de API en Python, con Git y GitHub

**San Salvador, 19 de agosto de 2024**

# Uso de API en Python, con Git y GitHub

## Practica - api

### config.py

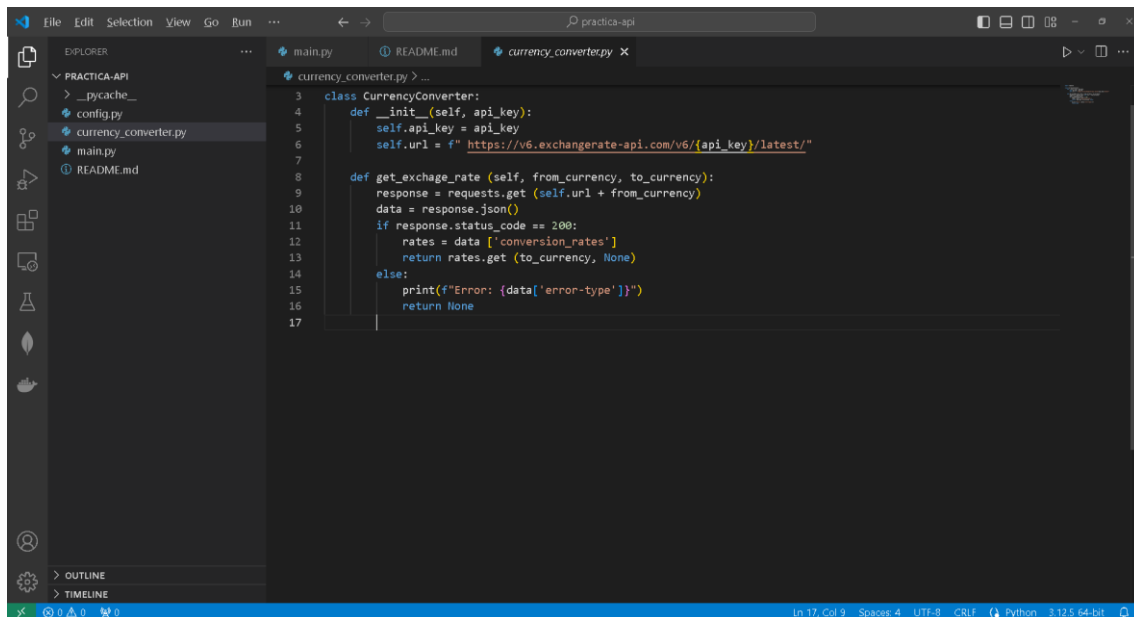


The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the project structure for 'PRACTICA-API', including files like 'config.py', 'currency\_converter.py', 'main.py', and 'README.md'. The main editor window is open to 'config.py', which contains the following code:

```
1 #API_KEY Exchange Rate
2 API_KEY = "d92e3bd0ab2b70a5b851419a"
```

The status bar at the bottom indicates the current cursor position is 'Ln 2, Col 37' and the file encoding is 'UTF-8'.

### currency\_converter.py

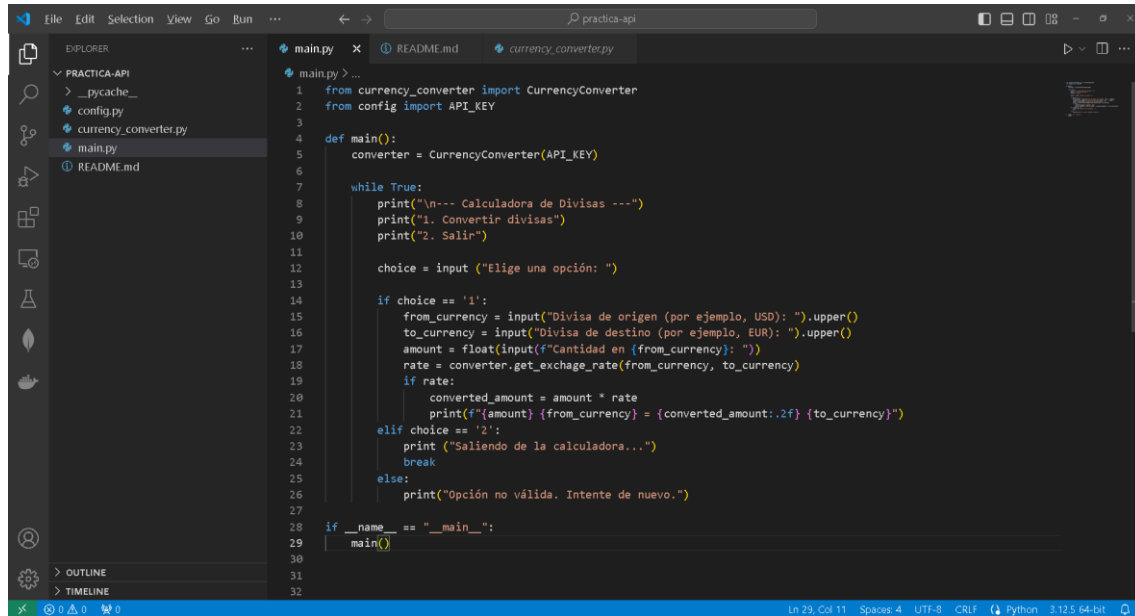


The screenshot shows the Visual Studio Code editor interface with 'currency\_converter.py' open in the main editor. The Explorer sidebar on the left shows the project structure. The code in 'currency\_converter.py' is as follows:

```
3 class CurrencyConverter:
4     def __init__(self, api_key):
5         self.api_key = api_key
6         self.url = f" https://v6.exchangerate-api.com/v6/{api_key}/latest/"
7
8     def get_exchange_rate(self, from_currency, to_currency):
9         response = requests.get(self.url + from_currency)
10        data = response.json()
11        if response.status_code == 200:
12            rates = data["conversion_rates"]
13            return rates.get(to_currency, None)
14        else:
15            print(f"Error: {data['error-type']}")
16            return None
17
```

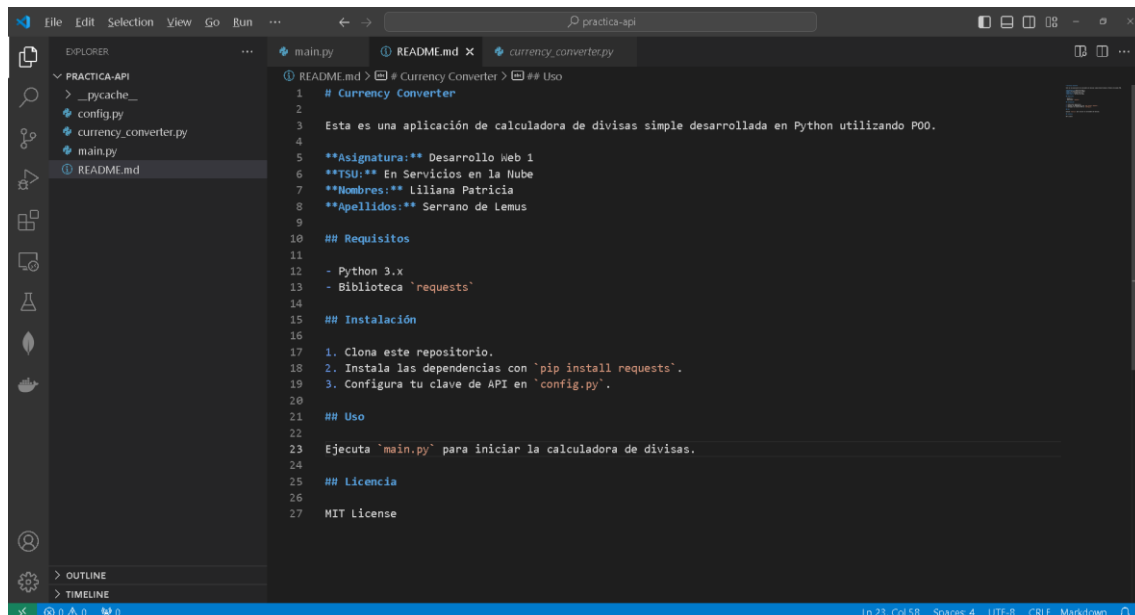
The status bar at the bottom shows the cursor at 'Ln 17, Col 9' with 'UTF-8' encoding.

## main.py



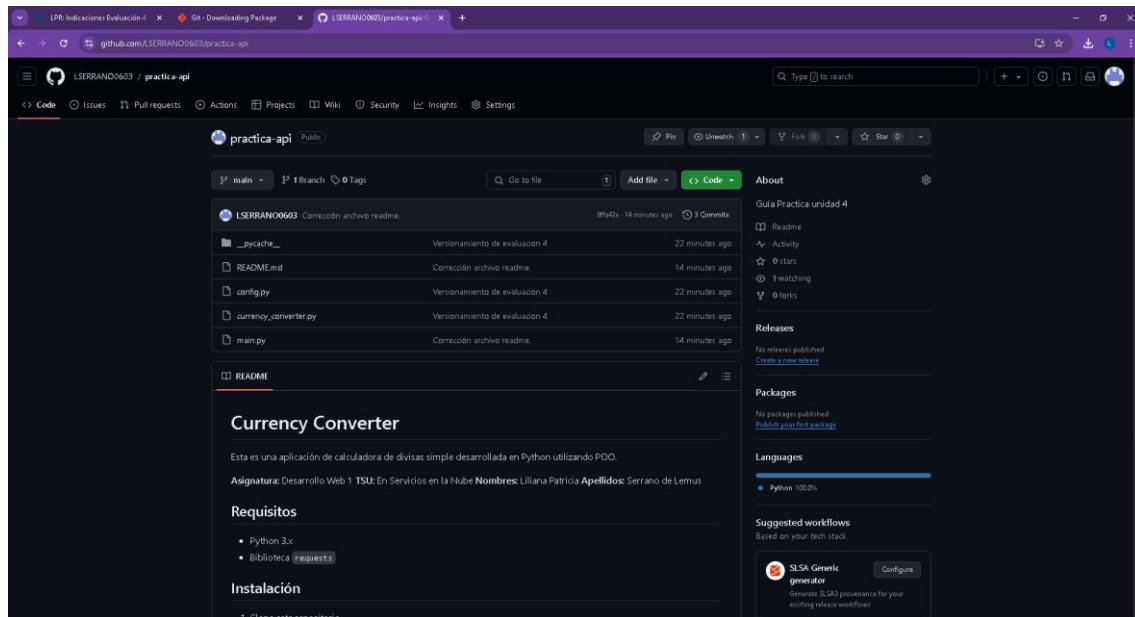
```
1 from currency_converter import CurrencyConverter
2 from config import API_KEY
3
4 def main():
5     converter = CurrencyConverter(API_KEY)
6
7     while True:
8         print("\n--- Calculadora de Divisas ---")
9         print("1. Convertir divisas")
10        print("2. Salir")
11
12        choice = input("Elige una opción: ")
13
14        if choice == '1':
15            from_currency = input("Divisa de origen (por ejemplo, USD): ").upper()
16            to_currency = input("Divisa de destino (por ejemplo, EUR): ").upper()
17            amount = float(input(f"Cantidad en {from_currency}: "))
18            rate = converter.get_exchange_rate(from_currency, to_currency)
19            if rate:
20                converted_amount = amount * rate
21                print(f"{amount} {from_currency} = {converted_amount:.2f} {to_currency}")
22        elif choice == '2':
23            print("Saliendo de la calculadora...")
24            break
25        else:
26            print("Opción no válida. Intente de nuevo.")
27
28 if __name__ == "__main__":
29     main()
30
31
32
```

## README.md



```
1 # Currency Converter
2
3 Esta es una aplicación de calculadora de divisas simple desarrollada en Python utilizando P00.
4
5 **Asignatura:** Desarrollo Web 1
6 **TSU:** En Servicios en la Nube
7 **Nombres:** Liliana Patricia
8 **Apellidos:** Serrano de Lemus
9
10 ## Requisitos
11
12 - Python 3.x
13 - Biblioteca 'requests'
14
15 ## Instalación
16
17 1. Clona este repositorio.
18 2. Instala las dependencias con 'pip install requests'.
19 3. Configura tu clave de API en 'config.py'.
20
21 ## Uso
22
23 Ejecuta 'main.py' para iniciar la calculadora de divisas.
24
25 ## Licencia
26
27 MIT License
```

# REPOSITORIO GITHUB



<https://github.com/LSERRANO0603/practica-api>