

REPORT OF CODE

Currency Converter Code

- You requested a code for a currency converter for all world currencies without AI.
- I provided a Python script that uses a free public exchange rate API, capable of converting amounts between over 150 currencies. The code fetches live rates and supports user input for source and target currencies, as well as the amount for conversion.
- The script is simple, command-line based, easy to use, and relies on the open-exchange API, which does not require an API key.

API and Data Sources

- Multiple sources related to currency codes and exchange rates were searched, including ISO 4217 standards and various free APIs like ExchangeRate-API, Currencylayer, and other open-source APIs.
- The supported currencies are identified using ISO 4217 codes, such as USD, EUR, INR, JPY, etc.
- These sources ensure the converter can handle nearly all major and minor world currencies, relying on real-time data for accuracy.

Technical Details

- The provided Python code uses the requests library to fetch data from a specified API URL.
- It handles errors such as invalid currency codes, API failures, and user input exceptions.
- The script outputs the conversion rate and the converted amount, facilitating easy currency conversion in real-time.

Usage Instructions

- Install Python and the requests library if not already installed (pip install requests).
- Save the script as a .py file and run it.
- Follow prompts to input the source currency, target currency, and amount.
- The converter displays live exchange rates and conversions based on the latest data.

Limitations & Extensions

- This example runs on the command line; it can be extended with a graphical interface or integrated into web applications.
- The API used is free and publicly accessible, which might have rate limits or occasional downtime—consider premium APIs for commercial or high-frequency use.