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import requests

# Your API key from fixer.io (or the API you choose to use)
API_KEY = 'YOUR_API_KEY'

# Define the base URL for the exchange rate API
BASE_URL = f'http://data.fixer.io/api/latest?access_key={API_KEY}'

def get_exchange_rates(base_currency):
    try:
        url = f'{BASE_URL}&base={base_currency}'
        response = requests.get(url)
        data = response.json()
        return data["rates"]
    except requests.exceptions.RequestException as e:
        print(f"Error: Unable to fetch exchange rates - {e}")
        return None

def convert_currency(amount, from_currency, to_currency):
    exchange_rates = get_exchange_rates(from_currency)

    if exchange_rates is not None:
        if to_currency in exchange_rates:
            converted_amount = amount * exchange_rates[to_currency]
            return converted_amount, exchange_rates[to_currency]
        else:
            print(f"Error: The target currency '{to_currency}' is not supported.")
            return None

def main():
    print("Welcome to Currency Converter")

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print("Supported currencies: EUR, USD, GBP, JPY, etc.")
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while True:
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    try:
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        amount = float(input("Enter the amount to convert: "))
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        from_currency = input("Enter the source currency (e.g., USD): ").upper()
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        to_currency = input("Enter the target currency (e.g., EUR): ").upper()
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        result = convert_currency(amount, from_currency, to_currency)
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        if result is not None:
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            converted_amount, exchange_rate = result
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            print(f"{amount} {from_currency} is equivalent to {converted_amount} {to_currency}"  
                  (Exchange rate: 1 {from_currency} = {exchange_rate} {to_currency}))
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            another_conversion = input("Do you want to perform another conversion? (yes/no): ").lower()
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            if another_conversion != "yes":
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                break
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        except ValueError:
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            print("Error: Invalid input. Please enter a valid numeric amount.")
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        except KeyboardInterrupt:
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            print("Currency converter terminated.")
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            break
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if __name__ == "__main__":
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    main()
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