**LEVEL-3**

**Build a small program that converts one currency to another based on current exchange rates (either hard- coded or fetched from an API). using python**

def get\_exchange\_rate(base\_currency, target\_currency):

"""

Fetches the exchange rate between base\_currency and target\_currency from the API.

"""

try:

response = requests.get(API\_URL + base\_currency)

data = response.json()

if data["result"] == "success":

rate = data["conversion\_rates"].get(target\_currency)

if rate:

return rate

else:

print(f"Error: {target\_currency} is not a valid currency code.")

return None

else:

print("Error: Unable to fetch data. Check your API key or try again later.")

return None

except requests.exceptions.RequestException as e:

print(f"Error: {e}")

return None

def convert\_currency():

base\_currency = input("Enter the base currency code (e.g., USD): ").upper()

target\_currency = input("Enter the target currency code (e.g., EUR): ").upper()

amount = float(input(f"Enter the amount in {base\_currency}: "))

# Get exchange rate from API

exchange\_rate = get\_exchange\_rate(base\_currency, target\_currency)

if exchange\_rate:

converted\_amount = amount \* exchange\_rate

print(f"{amount} {base\_currency} is equal to {converted\_amount:.2f} {target\_currency}.")

def main():

while True:

print("\nCurrency Converter")

print("1. Convert Currency")

print("2. Exit")

choice = input("Enter your choice: ")

if choice == '1':

convert\_currency()

elif choice == '2':

print("Exiting Currency Converter. Goodbye!")

break

else:

print("Invalid choice. Please try again.")