```
import requests
                                import matplotlib.pyplot as plt
                        def get_valid_currency_code(prompt, symbols):
                                         while True:
                            currency_code = input(prompt).upper()
                                 if currency_code in symbols:
                                    return currency_code
                                             else:
                   print("Invalid currency code. Please enter a valid code.")
                                   def get_valid_amount():
                                         while True:
                          try:
amount = float(input("Enter the amount: "))
                                          if amount
                                             = 0:
                           print("Amount must be greater than 0.")
                                             else:
                                        return amount
                                      except ValueError:
                          print("Amount must be a numeric value.")
                             def fetch_currency_symbols(apikey):
                         url = "https://api.apilayer.com/fixer/symbols"
                                          headers =
                                            apikey
                        response = requests.get(url, headers=headers)
                                 response.status_code != 200:
                     print(f"Failed to fetch currency symbols. Status code:
                                    True
                                               False
                               symbols_data = response.json()
                             return symbols_data.get("symbols",
                                            ).keys()
             def convert_currency(init_currency, target_currency, amount, apikey):
                       url = f"https://api.apilayer.com/fixer/convert?to=
                                       target_currency
                        response = requests.get(url, headers=headers)
                                 response.status_code != 200:
                       print(f"Sorry, there was a problem. Status code:
                                  True
                                              False
          response.status_code
                                result = response.json()
                                 if 'result' not in result:
                              print(f"Error in API response:
                           result.get('error', 'Unknown error')
def display_conversion_graph(init_currency, target_currency, amount, converted_amount):
                        labels = [init_currency, target_currency]
                                        values =
                                             amount, converted_amount
                       plt.show()
                   name == "main":
apikey = "xczqFWwhlZluKNhVXK2KD2ol8H55Vujw"
                                 True
                                            False
                       symbols = fetch_currency_symbols(apikey)
       print("Commonly used currency codes for suggestions:", ", ".join(symbols))
      init_currency = get_valid_currency_code("Enter an initial currency: ", symbols)
     target_currency = get_valid_currency_code("Enter a target currency: ", symbols)
                              amount = get_valid_amount()
 converted_amount = convert_currency(init_currency, target_currency, amount, apikey)
                                         print(f'
 display_conversion_graph(init_currency, target_currency, amount, converted_amount)
```

END

START