# CMSY 156 - Lab 6 – Part 1

The text file Exchrate.txt provided in this lab gives information about the currencies of 49 major countries. The first eight lines of the file are as follows:
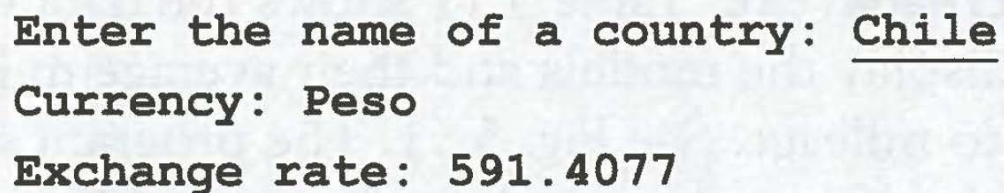
**Please Note: The currency and exchange rate are old and not up to date.**

America, Dollar, 1
Argentina, Peso, 8.405692
Australia, Dollar, 1.070835
Austria, Euro, 0.760488
Belgium, Euro, 0.760488
Brazil, Real, 2.237937
Canada, Dollar, 1.086126
Chile, Peso, 591.4077

Each line of the file gives the name of a country, the name of its currency, and the Number of units of the currency that were equal to one American dollar (called the exchange rate). For instance, one American dollar is equal to 591.4077 Chilean pesos. Use the text file Exchrate.txt in to solve labs 6-1, 6-2, & 6-3.

6-1. Write a program that requests the name of a county as input and then displays the name of its currency and its exchange rate.

See Figure 1 below:

```
Enter the name of a country: Chile
Currency: Peso
Exchange rate: 591.4077
```
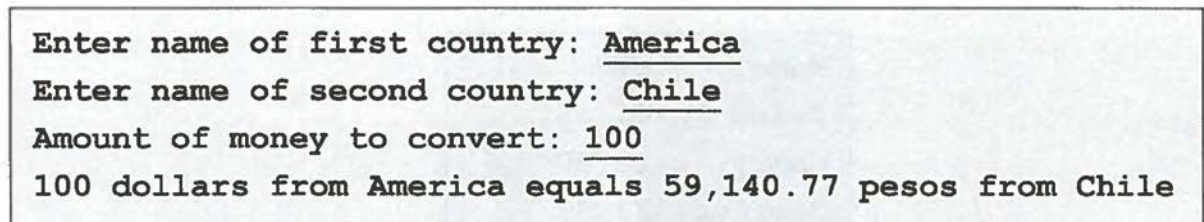
# CMSY 156 - Lab 6 – Part 1

Figure 1

6-2. Write a program that displays the names of the countries in ascending order determined by the number of units that can be purchased for one American dollar. Figure 2 shows the first three countries displayed.

```
Kuwait

United Kingdom

Australia
```

Figure 2

6-3. Write a program that requests the names of two countries and an amount of money, and then converts the amount from the first country's currency to the equivalent amount in the second country's currency. See Figure 3 below:

```
Enter name of first country: America
Enter name of second country: Chile
Amount of money to convert: 100
100 dollars from America equals 59,140.77 pesos from Chile
```

Figure 3

**Screen Shots of the output. Please submit py files as well as similar screen shots of the output**

# CMSY 156 - Lab 6 – Part 1

## Problem 1 output:

```
IDLE Shell 3.11.1                                                    —    □    ✕

File  Edit  Shell  Debug  Options  Window  Help

      Python 3.11.1 (tags/v3.11.1:a7a450f, Dec  6 2022, 19:58:39) [MSC v.1934 64 bit (
      AMD64)] on win32
      Type "help", "copyright", "credits" or "license()" for more information.
>>>
      ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-1.py ==========
      Enter the name of a country: Brazil
      Lab6-1 Answer
      Currency: Real
      Exchange rate: 2.237937
>>>
      ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-1.py ==========
      Enter the name of a country: Argent
      Lab6-1 Answer
      Argent is not in the file.
>>>
      ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-1.py ==========
      Enter the name of a country: Argentina
      Lab6-1 Answer
      Currency: Peso
      Exchange rate: 8.405692
>>>
      ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-1.py ==========
      Enter the name of a country: Austria
      Lab6-1 Answer
      Currency: Euro
      Exchange rate: 0.760488
>>>
```

## Problem 2 output:

```
IDLE Shell 3.11.1                                                    —    □    ✕

File  Edit  Shell  Debug  Options  Window  Help

      Python 3.11.1 (tags/v3.11.1:a7a450f, Dec  6 2022, 19:58:39) [MSC v.1934 64 bit (
      AMD64)] on win32
      Type "help", "copyright", "credits" or "license()" for more information.
>>>
      ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-2.py ==========
      Kuwait
      United Kingdom
      Austria
>>>
```

# CMSY 156 - Lab 6 – Part 1

## Problem 3 output:

```
IDLE Shell 3.11.1                                                      —    □    ✕

File  Edit  Shell  Debug  Options  Window  Help

    Python 3.11.1 (tags/v3.11.1:a7a450f, Dec  6 2022, 19:58:39) [MSC v.1934 64 bit ( ▲
    AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-3.py ==========
    Enter the name of first country: America
    Enter the name of second country: India
    Enter amount of money to convert: 2999
    2999 dollars from America equals 181,544.38 rupees from India
>>>
    ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-3.py ==========
    Enter the name of first country: European Union
    Enter the name of second country: India
    Enter amount of money to convert: 1500
    1500 euros from European Union equals 119,400.25 rupees from India
>>>
    ========== RESTART: I:\!HowardCC\CMSY156-Spring2023\Lab-Ans\Lab6-3.py ==========
    Enter the name of first country: Canada
    Enter the name of second country: America
    Enter amount of money to convert: 1200
    1200 dollars from Canada equals 1,104.84 dollars from America
>>>
```