Currency Convertor

**Due: Sun Feb 11, 2024 11:59pm**

100 Points Possible

You work for an exchange bank. At the end of the day a teller needs to be able to add up the value of all of the forign currency they have. A typical interaction with the computer program should look like this:

|  |
| --- |
| How many Euros do you have? 245.59  How many Mexican Pesos do you have? 4678  How many Chinese Yen do you have? 5432  The total value in US dollars is: $1378.73 |

Think about how to break this problem into simple steps. You need to ask how much the teller has of each currency, then make the conversion to US dollars and finally add the dollar amounts into a total.

Here is a sketch of the solution.

double currencyAmount;

double total;

// get the amount for the first currency

total += currencyAmount;

// get the amount for the second currency

total += currencyAmount;

// get the amount for the third currency

total += currencyAmount;

// output the total

Notice the use of the += operator, this is a shortcut that means the same thing as total = total + currencyAmount. It is usful for **accumulating** a total like we are doing here.

Submit only the .cpp file containing the code. Don't forget the code requirements for this class:

* **Good style:** Use good naming conventions, for example use lower camel case variable names.
* **Usability:** Always prompt the user for input so they know what to do and provide meaningful output messages.
* **Documentation:** Add a comments that document what each part of your code does.
* **Testing:** Don't submit your solution until you have tested it. The code must compile, execute and produce the correct output for any input.