

Write a Python program to manage the inventory of a warehouse. The program reads a first file named `warehouse.txt`, which contains the description of a series of products in the following format:

`product_code, unit_cost, quantity_available`

- The *product_code* is an alphanumeric string
- The *unit_cost* is a float (Euros with cents);
- The *quantity_available* is an integer

A second file (`movements.txt`) contains a series of commands corresponding to warehouse movements, in the format:

`product_code, variation`

- *product_code* has the same format as the warehouse file
- *variation* is an integer indicating how to adjust the stock quantity for the product with that code: if positive, the stock for that product must be increased by that value; if negative, it must be decreased.

The program must update the warehouse inventory according to the movements, with the following caveats:

1. it must indicate if the product is not present in the database;
2. it must indicate if the requested variation is not feasible. This occurs in the case of:
 - o Decrements larger than the available quantity for that product;
 - o Increments that result in a product quantity greater than 10,000.

In both cases, the program must ignore the corresponding operation and proceed to read a new command. For each movement, the program will print a message as shown in the example.

The warehouse updated according to the movements must be saved in a new file named `warehouse2.txt`

Example of Execution

<code>warehouse.txt</code>	<code>movements.txt</code>	<i>output</i>	<code>Warehouse2.txt</code>
ABCD306AZN,20.00,80 AZBF39829B,2.00,1200 AB302EFA,5.00,400 DSKJH34998,0.01,4000 FER3942DDDF,0.5,1000	ABCD306AZN,10	Increasing the quantity of ABCD306AZN by 10 Previous total value: 6540.00€ New total value: 6740.00€	AZBF39829B,2.00,1200 ABCD306AZN,20.00,90 AB302EFA,5.00,300 FER3942DDDF,0.5,1000 DSKJH34998,0.01,4000
	AB302EFA,-100	Decreasing the quantity of AB302EFA by 100 Previous total value: 6740.00€ New total value: 6240.00€	
	AZBF39829B,-2000	ERROR: Required quantity of AZBF39829B not available!	
	AB03EEU,16	ERROR: product AB03EEU not existent.	