**Module:** setAddQuantity

**Access Programs:** none

**Implementation:**

**Uses:** input.txt

Variables

Input:

code: STRING; decrement: INT;

Represents the code of the Item which will have its quantity value decreased by decrement.

Output:

code “\t” description “\t” cost “\t” quantity “\n”

Outputs to input.txt the updated information of the Item.

State:

tempCode:string

Stores the current code of the line which the program is reading from input.txt

Description:string

Stores the current description of the line which the program is reading from input.txt

cost: LONG

Stores the current cost of the line which the program is reading from input.txt

quantity: INT

Stores the current quantity of the line which the program is reading from input.txt

Constants: none

Psudo Code:

IF (input.txt not found) DO

PRINT (“Can’t open input file”)

IF(output.txt not found) DO

PRINT (“Can’t open output file”)

WHILE (NOT input.txt end of file) DO

tempCode = GET FROM input.txt (code)

IF (NOT(tempCode==”\n”)) DO

Description = GET FROM input.txt (description)

cost= GET FROM input.txt (cost)

quantity= GET FROM input.txt (quantity)

IF(Description NOT = “ “)DO

PRINT TO output.txt (tempcode “\t” Description”\t” cost “\t”

IF(tempCode==Code) DO

quantity’ = ‘quantity - decrement

PRINT TO output.txt (quantity “\n”)

CLOSE input.txt

CLOSE output.txt

DELETE input.txt

RENAME output.txt to input.txt

Test Report:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TEST CASE (item: code, descritption,cost, quantity)input.txt | code:String  decrement:INT | Tempcode:String, Description:String, Cost:LONG,quantity’: INT | Input.txt’ | Result |
| code1, des1,123,1  code2,des2, 45, 2  code3,des3, 6,3 | code3,2 | Code3,des3,6,1 | code1, des1,123,1  code2,des2, 45, 2  code3,des3, 6,1 | PASS |
| code1, des1,123,1  code2,des2, 45, 2  \n  code3,des3, 6,3 | code2, 10 | Code2,des2,45,-8 | code1, des1,123,1  code2,des2, 45, 12  \n  code3,des3, 6,-8 | PASS |
| EMPTY | Code2,10 | EMPTY | EMPTY | PASS |
| code1, des1,123,1  code2,des2, 45, 2  \n  code3,des3, 6,3 | Code7,des7,10,1 | EMPTY/NULL | code1, des1,123,1  code2,des2, 45, 2  code3,des3, 6,3 | PASS |