

Exercise

Part 1. Implement the class BillRow as presented in the following UML diagram

BillRow
- product: char //default is 'a' - qty: int //default is 1 - price: double //default is 0 <u>-taxPercent:double//constant equal 11%</u>
+BillRow() (7 pts) +BillRow(p: char, qty: int, price: double) +getProductl(): char +getQty(): int +setQty(q: int): void +getPrice(): double + computeDiscount():double +computeTotal():double +toString(): String

The class contains the following methods:

- computeDiscount () and it returns one of the following:
 1. 0 if the qty equal 1.
 2. 1.5 % if the qty between 2 and 5.
 3. 2 % if the qty between 6 and 10.
 4. 2.5 % if the qty greater than 10.
- computeTotal :This method compute the total of the BillRow according to the following formula:
Total= qty*price*(1- taxPercent/100- Discount/100)
- toString(): This method returns the description of the object as per the following example:
Bill net: 60.9, Product code: a, Qty:7, Price:10

Part 2.

Write a driver class to test the BillRow class as follows:

- a. Create an array of BillRow objects of size 3
- b. Fill the array with BillRow objects with data read from the user
- c. Ask the user to enter an index between 0 and 2 inclusive and compute the discount of BillRow object at the read index
- d. Display all BillRow in the array.
- e. Display the description (using toString()) of each of the BillRow objects of the array which have the product name 'a' .