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Assignment 5

Class Diagram

Class POS

* calcSubTotal(cups, price)
* calcSalesTax (subTotal)
* calcTotal(subTotal, salesTax)

Class Definition

1. Class POS
   1. Description
      1. Does calculations for Point Of Sale machine or cash register
   2. Members
      1. Function calcSubTotal (cups, price)
      2. Function calcSalesTax (subtotal)
      3. Function calcTotal (subtotal, salestax)
   3. Methods
      1. Function calcSubTotal (cups, price)
         1. Based on the given parameters, calculates the subtotal of the items purchased   
             subtotal = cups \* price
         2. Returns the calculation done in the previous step
      2. Function calcSalesTax (subtotal)
         1. Based on the given parameters, calculates the sales tax of 9% of the entire purchase based on the subtotal  
             sales tax = subtotal \* 0.09
         2. Returns the calculation done in the previous step
      3. Function calcTotal (subtotal, salestax)
         1. Based on the given parameters, calculates the grand total of the purchase based on the sales tax and the subtotal  
             total = subtotal + salestax
         2. Returns the calculation done in the previous step