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start

enter input

pass the input value
into the constructor

output values of
private members
using getters

correct output ?

no

yes

using setters update
values

output values of
private members
using getters

correct output ?

no

throw an exception:
getters / setters is
wrong

yes

end

create a store object name: HEB
using getName function to check, expected output: HEB
using setName set the store name to Walmart
using functiongetName to check if setName function work, expected output: Walmart

add a customer:
name: A
id: 1
has_credit: true

add a customer:
name: B
id: 2
has_credit: false

add a customer:
name: C
id: 3
has_credit: true

add a customer:
name: A
id: 1
has_credit: true
expected an exception

using getCustomer to check if customer B exist
expected to be found.

using getCustomer to check if customer D exist
expected to not be found.

add a product:
name: a
id: 101

add a product:
name: b
id: 102

add a product:
name: c
id: 103

add a product:
name: a
id: 101
expected an exception

using getProduct to check if product c exist
expected to be found

using getProduct to check if product e exist
expected not to be found

testing takeShipment with product:
name: a
id: 101

getPrice(), getTotalPaid(), getInventoryCount(), getNumberSold()
all should be expected 0

adding a shipment with quantity = 12 and cost = 1000
getPrice() expected to be 104.167
getTotalPaid() expected to be 1000
getInventoryCount() expected to be 12
getNumberSold() expected to be 0

adding a shipment with quantity = 10 and cost = 850
getPrice() expected to be 105.114
getTotalPaid() expected to be 1850
getInventoryCount expected to be 22
getNumberSold() expected to be 0

testing takeShipment with product:
name: f
id: 109
expected an exception

testing takePayment with customer:
name: A
id: 1
has_credit: true

getBalance expected to be 0

adding a payment with amount = 100

getBalance expected to be 100

adding a payment with amount = 200

getBalance expected to be 300

testing takePayment with customer:
name: F
id: 9
has_credit: false
expected an exception