MCO1 TEST CASES

Regular Vending Machine Class

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
purchaseltem	1	Determines if item can be bought when quantity is 15	index: 1, quantity: 5	10	10	Р
	2	Determines if item can be bought when quantity is 0	index: 2, quantity: 11	Print: Item Amount Exceeded.	Print: Item Amount Exceeded.	Р
	3	Determines if item can be bought when quantity is not enough. Initial Quantity: 3	index: 3, quantity: 4	Print: Item Amount Exceeded.	Print: Item Amount Exceeded.	Р

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
findItem	1	Determines if item already exists within Item Slots	Fried Egg	TRUE	TRUE	Р
	2	Determines if item does not exist within Item Slots	Coke	FALSE	FALSE	Р
	3	Determines if non-existing item is within Item Slots	Sprite	FALSE	FALSE	Р

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
insertPayment	1	Determines if amount inserted is a valid denomination	200	TRUE	TRUE	Р
	2	Determines if float value is a valid denomination	13.5	FALSE	FALSE	Р
	3	Determines if a negative integer is a valid denomination	-50	FALSE	FALSE	Р

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
calculateChange				Return: 25	25	
	1	Determines change given based on payment and total price	pay: 100, price 75	Print denominations needed: 200x0, 100x0, 50x0, 20x1, 10x0, 5x1, 1x0	Print denominations needed: 200x0, 100x0, 50x0, 20x1, 10x0, 5x1, 1x0	Р
				Return: 100	Return: 100	
	2	Determines change given based on payment and total price	pay: 200, price 100	Print denominations needed: 200x0, 100x1, 50x0, 20x0, 10x0, 5x0, 1x0	Print denominations needed: 200x0, 100x1, 50x0, 20x0, 10x0, 5x0, 1x0	Р
				Return: 175	Return: 175	
	3	Determines change given based on payment and total price	pay: 250, price 75	Print denominations needed: 200x0, 100x1, 50x1, 20x1, 10x0, 5x1, 1x0	Print denominations needed: 200x0, 100x1, 50x1, 20x1, 10x0, 5x1, 1x0	Р

Item Slot Class

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
getItemAvailability	1	Determines if item is available when quantity is 0	0	FALSE	FALSE	Р
	2	Determines if item is available when quantity is 10	10	TRUE	TRUE	Р
	3	Determines if item is available when quantity is 15	15	TRUE	TRUE	Р

Item Class

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
isAllowSell	1	Determines if item can be sold when requested exceeds quantity (15)	16	FALSE	FALSE	Р
	2	Determines if item can be sold when requested is less than quantity (12)	5	TRUE	TRUE	Р
	3	Determines if item can be sold when requested is a negative value	-7	FALSE	FALSE	Р

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
canRestock	1	Determines if item can be restocked when quantity is FULL (15)	5	FALSE	FALSE	Р
	2	Determines if item can be restocked when empty (0)	15	TRUE	TRUE	Р
	3	Determines if item can be restocked when quantity is 14 (MAX: 15)	2	FALSE	FALSE	Р

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
restockItem	1	Increments item quantity based on specified amount (Quantity: 14)	1	15	15	Р
	2	Increments item quantity based on specified amount (Quantity: 0)	15	15	15	Р
	3	Increments item quantity based on specified amount (Quantity: 7)	7	14	14	Р

Money Box Class

Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
isEmpty	1	Determines if money within object is empty	1000	FALSE	FALSE	Р
	2	Determines if money within object is empty	0	TRUE	TRUE	Р
	3	Determines if money within object is empty	-100	NOT POSSIBLE	FALSE	F
Method	#	Test Description	Sample Input Data	Expected Output	Actual Output	P/F
Method addMoney	1	Test Description Increments money by given amount when Money is 1000	Sample Input Data 500	Expected Output 1500	Actual Output 1500	P/F
		Increments money by given amount				

addEarnings 1 Increments earnings by given amount 500			
when Earnings is 1000	1500	1500	Р
2 Increments earnings by given amount when Earnings is 500	1000	1000	Р
3 Increments earnings by given amount when Earnings is 0	200	200	Р