Model1::ClassDiagram1

Receipt
(from PharmacySys)

-itemsCounter: int = 0
-totalPrice: float = 0
-numberOfReceiptsMade: int = 0
-formatter: DateTimeFormatter

«constructor»+Receipt(orders: Order[*])
+getNumberOfReceiptsMade(): int
+getTotalPrice(): float
+printReceipt(): void
+receiptSummary(): void

Item
(from PharmacySys)

-name: String
-ID: String
-price: double
-stock: int
-minimumAge: int

«»+Item(price: double, ID: String, name: String, minimumAge: int, stock: int)
+getPrice(): double
+getID(): String
+getName(): String
+getStock(): int
+getMinimumAge(): int
+decreaseStock(quantity: int): void
+describe(): void

{collection="ArrayList", static=true}
-products

Stock
(from PharmacySys)

«constructor»+Stock()
+getProductList(): Item[*]
#findItemByName(name: String): Item

Order
(from PharmacySys)

-OrderPrice: double
-quantity: int

«constructor»+Order(itemName: String, quantity: int)
+getOrderPrice(): double
+getQuantity(): int
+getItem(): Item
+getItemName(): String
+describeOrder(): void

-item

orders

Main
(from PharmacySys)

+main(args: String[*]): void

PersonalCare
(from PharmacySys)

+gender: String

«constructor»+PersonalCare(price: double, ID: String, name: String, minimumAge: int, stock: int, gender: String)
+getGender(): String
+describe(): void

Skincare
(from PharmacySys)

-routine: String

«constructor»+Skincare(price: double, ID: String, name: String, minimumAge: int, stock: int, gender: String, routine: String)
+getRoutine(): String
+describe(): void

Medicine
(from PharmacySys)

-dosageInstructions: String
-adminstrationRoute: String

«constructor»+Medicine(price: double, ID: String, name: String, minimumAge: int, stock: int, adminstrationRoute: String, dosageInstructions: String)
+getDosageInstructions(): String
+getAdministrationRoute(): String
+isDosageSafeForAge(ageInYears: int): boolean
+describe(): void

Multivitamins
(from PharmacySys)

-effectiveSubstance: String

«constructor»+Multivitamins(price: double, ID: String, name: String, minimumAge: int, stock: int, gender: String, effectiveSubstance: String)
+getEffectiveSubstance(): String
+getDosageInstructions(): String
+getAdministrationRoute(): String
+isDosageSafeForAge(age: int): boolean

Paracetamol
(from PharmacySys)

-unitAmount: int

«constructor»+Paracetamol(price: double, ID: String, name: String, minimumAge: int, stock: int, adminstrationRoute: String, dosageInstructions: String, unitAmount: int)
+getUnitAmount(): int
+describe(): void

Dosable
(from PharmacySys)

SuitableForChildren
(from PharmacySys)

Shampoo
(from PharmacySys)

~flavor: String

«constructor»+Shampoo(price: double, ID: String, name: String, minimumAge: int, stock: int, gender: String, flavor: String)
+getFlavor(): String
+describe(): void

Scheduled
(from PharmacySys)

Morphine
(from PharmacySys)

«constructor»+Morphine(ID: String)

Steroids
(from PharmacySys)

«constructor»+Steroids(ID: String)