NOTE

Overriden methods, setter, need to write down?

Abstract method should be public , need + symbol?

Question

association, if there's a instance, it'll be association? What will be aggregation, composition in this class diagram?

Track Money

class diagram

ExpenseCategories

+ expenseCategories : List<String>

IncomeCategories

+ incomeCategories : List<String>

Item

\# name: String
\# amount: int
\# date: Date
\# category: int

+ getFormattedString() : String
+ getFormattedString(String format) : String
+ getFormattedStringForAll() : String
+ getAmountToCalc() : int

item

ExpenseItem

IncomeItem

Controller

#commandValidation : CommandValidation
#commandMenu: List<String>
#items: List<Item>
#scanner: Scanner

#printFirstInstruction()
#getInput(): int
#showCommandList()
#backToMainMenu()
+void run()

EditItemController

\# categories: List<String>

\# chooseCategory(Item item)
\# setNameToItem(Item item)
\# setAmountToItem(Item item)

ExpenseControlController

- sortItem : SortItem

- showExpenseControl()
- chooseMode()

MainController

- saveLoadItems : SaveLoadItems
- savedItemFileName : String

- mainInit()
- printCurrentBalance()
- chooseMainMenu()
- goShowItems()
- goAddItemMenu()
- goEditItemMenu()
- goExpenseControl()
- saveAndQuit()
- loadSavedItemsToMain()

ShowItemController

- sortItem : SortItem

- showListingOrderOptions()
- giveListingOption()
- chooseMode()
- printAll(): long
- printOnlyIncomes : long

EditController

- chooseItem()
- chooseMode(Item item)
- editItem(Item item)
- setDateToItem(Item item)
- removeItem(Item item)

AddController

- chooseMode()
- createExpensesItem()
- createIncomeItem()

Main

+ main(String[] args)

CalcBalance

+ getTotalBalance(List<Item> items) : List <Item>

SortItem

+ sortByDate(List<Item> items) : List <Item>
+ sortByDateDes(List<Item> items) : List <Item>
+ sortByAmount(List<Item> items) : List <Item>
+ sortByAmountDes(List<Item> items) : List <Item>
+ sortByName(List<Item> items) : List <Item>
+ sortByNameDes(List<Item> items) : List <Item>
+ createSortedItems(List<Item> items) : List <Item>

SaveLoadItems

+ loadSavedItems(List<Item> items, String fileNam
+ mapToItem(String json) : Item
+ saveItems(List<Item> items, String fileName) : B
+ createJsonString(List<Item> items): String

CommandValidation

+ getCommand(int numberOfCommands): int