

## ADP ShoppingCart Project

### **shoppingcart (package):**

- shoppingcart is a package that consists of 4 java classes.
- Following are the classes inside shoppingcart package:

- Categories.java

This class is used to define various shopping item categories and their applicable discount percentage.

- FlatDiscountSlabs.java

This class is used to define flat discount percentage over different price range slabs.

- ShoppingCartItems.java

This class is used to define shopping cart items with their id, name, category, unit price, quantity.

- BillProcessing.java

- This is the class that contains main method and this class is used to generate the bill of the items that are added in the shopping cart.
- We are getting the data from different JSON files and which file will be parsed is decided by jsonReader method.
- All the business logic for processing bill is written in this class calculateBillAmount method.

### **Input : JsonData**

- JsonData is the folder that contains 3 Json files.
- These Json files contains the sample data for the shopping cart.
  - Categories.json
  - FlatDiscountSlabs.json
  - ShoppingCart.json

**Output:** Console Display

- It displays complete cart items with unit price, quantity and discount applied on category and net amount.
- It also displays the total billing amount, slab discount and total discount on the bill.

**Unit Testing:**

- For unit testing we have written JUnit test cases under shoppingcart package.
- The test cases are written under TestCart.java file.