ClientPackage

Client

clientID: Stringname: String

phoneNum: longemail: String

- clientCount: static int-leasedItems: Item[]

+Client(): Client

+Client(String name, long phoneNum, String email): Client

+Client (Client otherClient): Client

+getClientID(): String
+getName(): String
+getEmail(): String
+getPhoneNum(): long

+getLeasedItems(): Item[]
+setEmail(String email): void

+setPhoneNum(long phoneNum): void

+setName(String name): void +setClientID(String clientID): void +getClientCount(): static int

+setClientCount(int count): void +toString(): String

+equals(Object otherObject): boolean

+ lease(Item item): boolean +returns(Item item): boolean +printLeasedItems(): void

LibraryPackage

Item

id: Stringname: Stringauthor: StringyearOfPub: int

+Item(): Item

 $\hbox{+Item(String name, String author, int year Of Pub):} \\$

Item

+Item(Item otherItem): Item

+equals(Object otherObject): Boolean

+toString(): String +getID(): String +getName(): String +getAuthor(): String +getYearOfPub(): int

+setName(String name): void +setAuthor(String author): void +setYearOfPub(int yearOfPub): void

+setID(String id): void

Library

-allItems: Item[]
-itemCount: static int
-clients: Client[]

+addItem(Item item): void +deleteItem(String id): void

+changeItemInfo(String id, String newName,

String newAuthor, int newYear): void

+listItemsByCategory(String category): void

+printAllItems(): void
+add(Client client): void
+deleteClient(String id): void

+editClient(String id, String newname, long

phone, String email): void +allLeasedItems(): void +getBiggestBook(): Book

DriverPackage

Driver

+copyBooks(Item[] arr): static Item[]

Journal

-volumeNum: int

-totalJournlas: static int

+Journal(): Journal

 $+ Journal (String\ name,\ String\ author,\ int\ year Of Pub,\ int\ volume Num):$

Journal

+Journal(Journal otherJournal): Journal +equals(Object otherObject): Boolean

+toString(): String +getVolumeNum():int

+setVolumeNum(int volumeNum): void

Book

-numPages: int
-totalBooks: static int

+Book(): Book

+Book(String name, String author, int yearOfPub, int numPages): Book +Book(Book otherBook): Book

+equals(Object otherObject): Boolean

+toString(): String +getNumpages(): int

+setNumPages(int numPages): void

Media

-type: String

-totalMedia: static int

+Media(): Media

+Media(String name, String author, int yearOfPub, String

type): Media

+Media(Media otherMedia): Media +equals(Media otherObject): boolean

+toString(): String
+getType(): String

+setType(String type): void