## ClientPackage

#### Client

- clientID: String
- name: 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

#### Journal

-volumeNum: int

-totalJournlas: static int

+Journal(): Journal

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

Journa

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

+toString(): String

+getVolumeNum():int

+setVolumeNum(int volumeNum): void

## LibraryPackage

#### Item

#id: String #name: String #author: String #yearOfPub: int

+Item(): Item

+Item(String name, String author, int yearOfPub):

tem

+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

Book

-numPages: int

+Book(): Book

+toString(): String

+getNumpages(): int

-totalBooks: static int

+Book(String name, String author, int

+equals(Object otherObject): Boolean

+setNumPages(int numPages): void

yearOfPub, int numPages): Book

+Book(Book otherBook): Book

### 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[]bookArr): Book

# 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

#### DriverPackage

#### Driver

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

+printMenu(): void