Assignment Problem 3

PGDCA II Semester

PS02CDC33: Object Technology

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Book (Library)

1. Define a class of Book with attribute as follows.

```
integer No → defines book identification number

String Title → defines name of book

String Author → defines author of book

char Status → Status of book, I for Issued; A for Available.
```

- 2. Define at least one constructor having above parameters.
- **3. Define a void print method** in the Book class which prints book data with all details.
- 4. Define void Issue () and Void Return() to change book status.
- **5. In the main method,** define any 2 books called b1 and b2 as follows. Book b1= new Book(1, "KBS", "Sajja", 'A'); Book b2= new Book(2, "SAD", "Sajja", 'I');
- **6.** Call methods Isuue and Return on both the books.

Solution

```
package book;
public class Book {
  int No:
          String Title;
                      String Author; char Status;
  Book(int No, String Title, String Author, char Status)
     this.No = No;
     this.Title = Title;
     this.Author = Author;
     this.Status= Status;
  }
  void print()
  { System.out.println("-----");
   System.out.println("Book No\t Book Title \tAuthor \t\t Status");
   System.out.println("-----"):
   System.out.println(No + "\t " + Title + "\t\t" + Author + "\t\t" + Status);
   System.out.println("-----");
  }
  void Issue()
  { System.out.println ("The current status of book is: " + Status);
```

```
if (Status == 'I') System.out.println ("Already Issued....");
  else { Status= 'I'; System.out. println ("The Book is now Issued...! ");}
}
void Return()
{ System.out.println ("The current status of book is: " + Status);
  if (Status == 'A') System.out.println ("Already Returned ....");
  else { Status= 'A'; System.out. println ("The Book is now Returned...! ");}
}
public static void main(String[] args) {
   Book b1= new Book(1, "KBS", "Sajja", 'A');
   b1.print();
   b1.Issue();
   b1.Return();
    Book b2= new Book(2, "SAD", "Sajja", 'I');
    b2.print();
    b2.Issue();
    b2.Return();
 }
```

Sample Output

}

Book No	Book Title	Author	Status
1	KBS	Sajja	A
The current status of book is: A The Book is now Issued! The current status of book is: I The Book is now Returned!			
	Book Title	Author	Status
2	SAD	Sajja	I
The current status of book is: I Already Issued The current status of book is: I The Book is now Returned!			