Lab - 3

1) Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a to String() method that could display the complete details of the book. Develop a Java program to create n object books.

```java
import java.util.Scanner;
class Book {
    String name;
    String author;
    int price;
    int numPages;

    Book (string name, String author, int price,
          int numPages)
    {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }

    public String toString()
    {
        String name = "Book name : " + this.name + "\n";
        String author = "Author name : " + this.author + "\n";
        String price = "Price : " + this.price + "\n";
        String numPages = "Number of Pages : " + this.numPages + "\n";
        return name + author + price + numPages;
    }
}
```

```java
class Main {
    public static void main (String[] args)
    {
        Scanner s = new Scanner (System.in);

        System.out.print ("Enter the number of books:");
        int n = s.nextInt();

        Book b[] = new Book[n];
        for (int i=0; i<n; i++)
        {
            System.out.print ("Enter name of the book: ");
            String name = s.next();
            System.out.print ("Enter the author of the book:");
            String author = s.next();
            System.out.print ("Enter the price of the book: ").
            int price = s.nextInt();
            System.out.print ("Enter the number of pages of
                            the book: ");
            int numPages = s.nextInt();
            b[i] = newBook (name, author, price, numPages).
        }

        System.out.println (" In Book Details:");
        for (int i = 0, i <n; i++)
        {
            System.out.println ("Book" + (i+1) + ": )n" + b[i]);
        }
    }
}
```

Output: Enter the number of book : 2
Enter the name of the book: Java
Enter author of the book : George
Enter the price of the book: 280
Enter the number of pages of the book: 120
Enter name of the book: ComputerOrganization
Enter author of the book: CarlHamcher
Enter the price of the book: 400
Enter the number of pages of the book: 150

Book Details :
Book 1 :
Book name: Java
Author name: George
Price : 280
Number of pages: 120

Book 2:
Book name: ComputerOrganization
Author name: CarlHamcher
Price: 400
Number of pages: 150