③ Lab 3-26-12-2023

LA 26-12-23

Book class - object program

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

Books( 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, author, price, numPages;
name="Book name:"+this.name+"\n";
author="Author name:"+this.author+"\n";
price="Price:"+this.price+"\n";
numPages="Number of pages:"+this.numPages+"\n";
return name+author+price+numPages;
}
}
```

```
class Main
{
public static void main (String args[])
{
Scanner scan = new Scanner (System.in);
int n, price, numPages;
String name, author;
n = scan.nextInt();
price = scan.nextInt();
numPages = scan.nextInt();
name = scan.next();
author = scan.next
Books b[] = new Books[n];
System.out.println(
for(int i=0; i<n; i++)
{
System.out.println("Enter details of Book "+(i+1)+":");
System.out.println("Enter name of book: ");
name = scan.next();
author = scan.next();
price = scan.nextLine();
System.out.println("Enter price of book: ");
price = scan.nextInt();
System.out.println("Enter no. of pages: ");
numPages = scan.nextInt();
b[i] = new Books(name, author, price, numPages);
```

System.out.println("Enter no of books: \n");

System.out.println("Enter author name: ");

```
}
System.out.println("Book details: ");
System.out.println("Book Name \t Author \t Price \t
                    No. of Pages");

for(int i=0; i<n; i++)
{
System.out.println(b[i].name+"\t"+b[i].author+"\t"
        +b[i].price+"\t"+b[i].numPages);

}
System.out.println("Sneha N Shastri-1BM22CS283");
}
}
```

Output:

```
Enter no. of books:
3
Enter details of book1:
Enter name of the book:
Enchanted
Enter author name:
Bond
Enter price of book:
125
Enter no. of pages:
300
Enter details of book2:
Enter name of the book:
Elated
Enter author name:
Rowling
```

Enter price of book:
200
Enter no. of pages:
450
Enter details of book 3:
Enter name of book:
Evolve
Enter author name:
Hoover
Enter price of book:
100
Enter no. of pages:
200

Book Details:

Book Name	Author	Price	No. of pages
Enchanted	Bond	125	300
Elated	Rowling	200	450
Evolve	Hoover	100	200

~~2. Stack Program~~