

WEEK 3

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 toString() method that could display the complete details of the book. Develop a Java program to create n book objects.

```
import java.util.Scanner;

class Book{
    String name,author;
    int num_pages;
    float price;

    Book(String n,String a,int num,float p){
        n=name;
        a=author;
        num=num_pages;
        p=price;
    }
    Book(){}

    void accept(){
        Scanner s=new Scanner(System.in);
        System.out.println("Enter book name");
        name=s.nextLine();
        System.out.println("Enter book author");
        author=s.nextLine();
        System.out.println("Enter number of pages and price of book");
        num_pages=s.nextInt();
        price=s.nextFloat();
    }

    void get(){
        System.out.println("Title: "+name);
        System.out.println("Author: "+author);
        System.out.println("Number of pages: "+num_pages);
        System.out.println("Price: "+price);
    }

    public String toString(){
```

```

return ("Title: "+name+"\nAuthor: "+author+"\nNumber of pages: "+num_pages+"\nPrice:
"+price);
}
}

```

```

class Lab_3{
public static void main(String x[]){
int n;
Scanner s=new Scanner(System.in);
System.out.println("Enter number of books to be created");
n=s.nextInt();
Book[] b=new Book[n];
for(int i=0;i<n;i++){
b[i]=new Book();
b[i].accept();
}
for(int i=0;i<n;i++){
System.out.print("\nBook entry number "+(i+1)+"\n\n");
b[i].get();
}
}
}

```

```

C:\Users\bmscece\Desktop\18M21CS022>java Lab_3
Enter number of books to be created
2
Enter book name
java
Enter book author
person p
Enter number of pages and price of book
100 1000
Enter book name
00j
Enter book author
person m
Enter number of pages and price of book
20 200

Book entry number 1

Title: java
Author: person p
Number of pages: 100
Price: 1000.0

Book entry number 2

Title: 00j
Author: person m
Number of pages: 20
Price: 200.0

```

- PAGE NO: _____
DATE: _____
- (3) 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 object. Include a toString() method that could display the complete details of the book. Develop a java program to create n book objects.

```
import java.util.Scanner;
```

```
class Book {
```

```
    String name, author;
```

```
    int num-pages;
```

```
    float price;
```

```
    Book (String n, String a, int num, float p) {
```

```
        this.n = name;
```

```
        this.a = author;
```

```
        this.num = num-pages;
```

```
        this.p = price;
```

```
    }
```

```
    Book () {}
```

```
void set() {
```

```
    Scanner s = new Scanner (System.in);
```

```
    System.out.println("Enter book name");
```

```
    name = s.nextLine();
```

```
    System.out.println("Enter book author");
```

```
    author = s.nextLine();
```

```
    System.out.println("Enter number of pages and price");
```

```
    num-pages = s.nextInt();
```

```
    price = s.nextFloat();
```

```
}
```

```
void get() {
```

```
    System.out.println("name: " + name);
```

```
    System.out.println("author: " + author);
```

```
    System.out.println("num-pages: " + num-pages);
```

```
    System.out.println("price: " + price);
```

```
}
```

```
public String toString() {
```

```
    return ("name: " + name + "\nauthor: " + author +
```

```
    "\nnum-pages: " + num-pages + "\nprice: " + price);
```

```
}
```

```
}
```

```
class - 3 {
```

```
    public static void main (String v[]) {
```

```
        int n;
```

```
        Scanner s = new Scanner (System.in);
```

```
        System.out.println ("Enter number of books to be created");
```

```
        n = s.nextInt();
```

```
        Book[] b = new Book[n];
```

```
        for (int i = 0; i < n; i++) {
```

```
            b[i] = new Book();
```

```
            b[i].get();
```

```
        }
```

```
        for (int i = 0; i < n; i++) {
```

```
            System.out.println (b[i]);
```

```
        }
```

```
        s.close();
```

```
    }
```

```
}
```


Output:

Enter number of books to be created

2

Enter book name

java

Enter book author

person p

Enter number of pages and price of book

100 1000

Enter book name

ooj

Enter book author

person m

Enter number of pages and price of book

20 2000

Book entry number 1

Title : java

Author : person p

Number of pages : 100

Price : 1000.0

Book entry number 2 ~~10/12/22~~

Title : ooj

Author : person m

Number of pages : 20

Price : 200.0