

# YASH GUPTA

## 1BM21CS251

### 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.

#### INPUT:

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

```
class book{
```

```
    String author;
```

```
    String name;
```

```
    int price;
```

```
    int num_pages;
```

```
    book(String name1,String author1,int price1,int pages){
```

```
        name=name1;
```

```
        author=author1;
```

```
        price=price1;
```

```
        num_pages=pages;
```

```
    }
```

```
    book(){
```

```
    }
```

```
    void setdetails(){
```

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

```
        System.out.print("enter name of book: ");
```

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

```

        System.out.print("enter author's name: ");
        author=sc.nextLine();
        System.out.print("enter price of book: ");
        price=sc.nextInt();
        System.out.print("enter num of pages: ");
        num_pages=sc.nextInt();
        System.out.println("DETAILS SET SUCCESSFULLY :)");
    }
    void getdetails(){
        System.out.println("NAME: "+name);
        System.out.println("AUTHOR: "+author);
        System.out.println("PRICE: "+price);
        System.out.println("NUM_PAGES: "+num_pages);
    }
    public String toString(){
        return("NAME: "+name+" AUTHOR: "+author+" PRICE: "+price+"
NUM_PAGES: "+num_pages);
    }
}
class exp3{
    public static void main(String args[]){
        int n;
        System.out.println("enter the number of books: ");
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();
        book b1[]= new book[n];
        for(int j=0;j<n;j++){
            System.out.println("ENTER DETAILS");

```

```

        System.out.println("1:set using constructor\n2:set using method");
        int ch=sc.nextInt();
        if(ch==2){
            b1[j]=new book();
            b1[j].setdetails();
        }
        else{
            b1[j]=new book("TINKLE","ANONYMOUS",20,100);
        }
    }
    for(int j=0;j<n;j++){
        System.out.println("\nPRINTING BOOK DETAILS");
        System.out.println("1:display using method\n2:display using toString");
        int ch=sc.nextInt();
        if(ch==1){
            b1[j].getdetails();
            System.out.println();
        }
        else{
            String details=b1[j].toString();
            System.out.println(details);
        }
    }
}
}

```

## OUTPUT:

```
C:\Users\Admin\Desktop\1bm21cs251>java exp3
enter the number of books:
2
ENTER DETAILS
1:set using constructor
2:set using method
1
ENTER DETAILS
1:set using constructor
2:set using method
2
enter name of book: classmate
enter author's name: yash
enter price of book: 30
enter num of pages: 100
DETAILS SET SUCCESSFULLY :)

PRINTING BOOK DETAILS
1:display using method
2:display using toString
1
NAME: TINKLE
AUTHOR: ANONYMOUS
PRICE: 20
NUM_PAGES: 100

PRINTING BOOK DETAILS
1:display using method
2:display using toString
2
NAME: classmate AUTHOR: yash PRICE: 30 NUM_PAGES: 100
```