

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 toString() method that could display complete details of the book. Develop a Java prog to create a book object.

Solⁿ:- import java.util.Scanner

```
class Book {
```

```
    String name, author;
```

```
    double price;
```

```
    int num - page;
```

```
    Book ()
```

```
    { }
```

```
    public Book (String name, String author, double price,
                 int num - page)
```

```
    {
```

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

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

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

```
        this.num - page = num - page;
```

```
    }
```

```
    void Set () {
```

```
        Scanner s1 = new Scanner (System.in);
```

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

```
        name = s1.nextLine();
```

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

```
        author = s1.nextLine();
```



```
System.out.println("Enter price of book");  
price = s1.nextDouble();  
System.out.println("Enter number of page of book");  
num-page = s1.nextInt();
```

```
}
```

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

```
    return "name: " + name + "\n author: " + author +  
    "\n price: " + price + "\n number of pages: " +  
    num-page;
```

```
}
```

```
}
```

```
class Bmain{
```

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

```
        Scanner s2 = new Scanner (System.in);
```

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

```
        int n = s2.nextInt();
```

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

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

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

```
            System.out.println("Enter details of book: " + i);
```

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

```
        }
```

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

```
            System.out.println("Details of book " + i + ":");
```

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

```
        }
```

```
    }
```

```
}
```