

26/10/03

- Q) 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 complete details of book . Develop a Java program to create a Book object .

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

```
class Book {
```

```
    String name;
```

```
    String author;
```

```
    int price;
```

```
    int num pages;
```

```
    public Book (String name, String author,
```

```
                int price, int numPages) {
```

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

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

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

```
        this.num pages = num Pages;
```

```
}
```

```
    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";~~ ~~num pages = "Number of pages:" + this.num
 pages + "\n";~~ ~~return name + author + price + numPages;~~

```
}
```

public class Main {

 public static void main (String [] args) {
 Scanner s = new Scanner (System. in);
 int n;

 String name;

 String author;

 int price;

 int numPages;

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

 Book b[] = new Book [n];

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

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

 name = s.next();

 System.out.print ("Enter author of book: ");

 author = s.next();

 System.out.print ("Enter price of book: ");

 price = s.nextInt();

 System.out.print ("Enter the number of
 pages of book: ");

 numPages = s.nextInt();

 b[i] = new Book (name, author, price, numPages);

}

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

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

}

Output

Enter the number of book:

2

Enter name of book:

X

Enter author of book:

B

Enter the price of the Book:

300

Enter the number of pages of book:

450

Enter name of the book:

X

Enter authors of book:

The

Enter the price of book:

500

Enter the number of pages of book:

390

Book name : A

Author Book name : B

Price : 300

Number of pages : 450

Book Name : X

Author name : The

Price : 500

Number of pages : 390