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IBM22CS264

Lab-(3)

26/12/23

classmate

Date

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- (3) Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values of 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.*;  
class Books {  
    String name;  
    String author;  
    String 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 = "No. of pages:" + this.numpages + "\n";  
    return name + author + price + numpages;  
}
```

```
class Books {
```

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

```
        int n;
```

```
        String name;
```

```
        String author;
```

```
        int price, numpages;
```

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

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

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

```
        Books b[];
```

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

```
        int i;
```

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

```
        {
```

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

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

```
            author = sc.next();
```

```
            price = sc.nextInt();
```

```
            numpages = sc.nextInt();
```

```
            b[i] = new Books(name, author, price,
```

```
                                numpages);
```

```
        }
```

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

```
        {
```

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

```
        }
```

```
    }
```

```
}
```

Output:

Enter number of books: 2

Hello

Hi

23

32

Oh!

Om

33

62

Book name: Hello

Author name: Hi

Price: 23

Number of Pages: 32

~~Book name: Oh!~~

~~Author name: Om~~

~~Price: 33~~

~~Number of Pages: 62~~

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