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19/12/2023.

\* 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 declare array of object

classname obj = new classname[sing];

```
import java.util.Scanner;  
class Book {
```

```
    String name, author;  
    int price, num_of_pages;
```

```
    Book(String name, String author,  
          int price, int num_of_pages)  
    {
```

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

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

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

```
        this.num_of_pages = num_of_pages;
```

```
    }
```

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

```
        String s = "Book name: " + name
```

```
        + "\n" + "Author name: " + author +
```

```
        "\n" + "Price: " + price + "\n" +
```

```
        "Number of pages: " + num_of_pages;
```

```
    }
```

```
        return s;
```

```
    }
```

```
}
```

```
class Main {
```

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

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

```
        String name, author;
```

```
        int price, num_of_pages;
```

```
        System.out.println("IBM22CS189");
```



```
System.out.println("Pannaga R Bhat");  
int i;
```

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

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

```
sc.nextLine(); // consume newline
```

```
Book ob[] = new Book[i];
```

```
for (int j=0; j<i; j++) {  
    System.out.println("Enter the name of  
the book " + (j+1));
```

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

```
    System.out.println("Enter the author name  
of the book " + (j+1));
```

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

```
    System.out.println("Enter the price of the  
book " + (j+1));
```

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

```
    System.out.println("Enter the number of  
pages in the book "  
+ (j+1));
```

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

```
    sc.nextLine(); // consumes newline
```

```
ob[j] = new Book(name, author, price,  
num_of_pages);
```

```
}
```



```
for(int j=0; j<i; j++) {  
    String c=obj[j].toString();  
    System.out.println("Details of the  
                        Book "+(j+1)+" :");  
    System.out.print(c);  
}
```

\*

Output:-  
IBM22CS189  
Pannaga R Bhat

Enter the number of books

1

Enter the name of the Book 1

wings of fire

Enter the author name of the Book 1

Arun Tiwari

Enter the price of the book 1

200

Enter the number of pages in the book 1

342

Details of the Book 1:

Book name: wings of fire

Author name: Arun Tiwari

Price: 200

Number of pages: 342

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