

12/01/2024

WEEK-4

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- (Q) Create a class book which contains four members. name, author, price, num pages. include a constructor to set the values for members.

```

import java.util.*;
class books {
    Scanner sc = new Scanner(System.in);
    String name, author;
    int price, num_pages;
    books() {
        System.out.println("Enter the details of the book");
        name = sc.nextLine();
        author = sc.nextLine();
        price = sc.nextInt();
        num_pages = sc.nextInt();
    }
    books(String name, String author, int price, int num_pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;
    }
    void getData() {
        System.out.println("Enter the name of the book");
        name = sc.nextLine();
        System.out.println("Enter name of author");
        author = sc.nextLine();
        System.out.println("Enter the price");
        price = sc.nextInt();
        System.out.println("Enter no of pages");
        num_pages = sc.nextInt();
    }
}
  
```

```
public string toString()
```

```
{ return "Name : "+name + "Author : " + Author +  
"Author " + price + " in Number of  
pages : " + num pages);
```

{

}

```
class bookDetails
```

{

```
public static void main(string args[])
```

{

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

```
books b1 = new books
```

```
books ("Meha", "neil", 56, 154);
```

```
System.out.println ("Constructor values : "+b1);
```

```
System.out.print ("enter number of object of
```

```
books");
```

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

```
books ob [] = new books [n];
```

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

{

```
ob[i] = new books ();
```

```
for (int i=0; i<n; i++)  
System.out.println ("Enter details of "+ (i+1) +  
"book");
```

```
ob[i].getdata();
```

{

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

{

```
System.out.println ("In Details of the book "+ (i+1));
```

System.out.println(S[i]);

}

{

}

Prints out

Output: Name: Mehta

Author: Neil

Price : 50

Number Of Pages : 154

Enter no of object of books : 1

Enter details of 1 book

enter Name of book : It ends with us Details of book 1

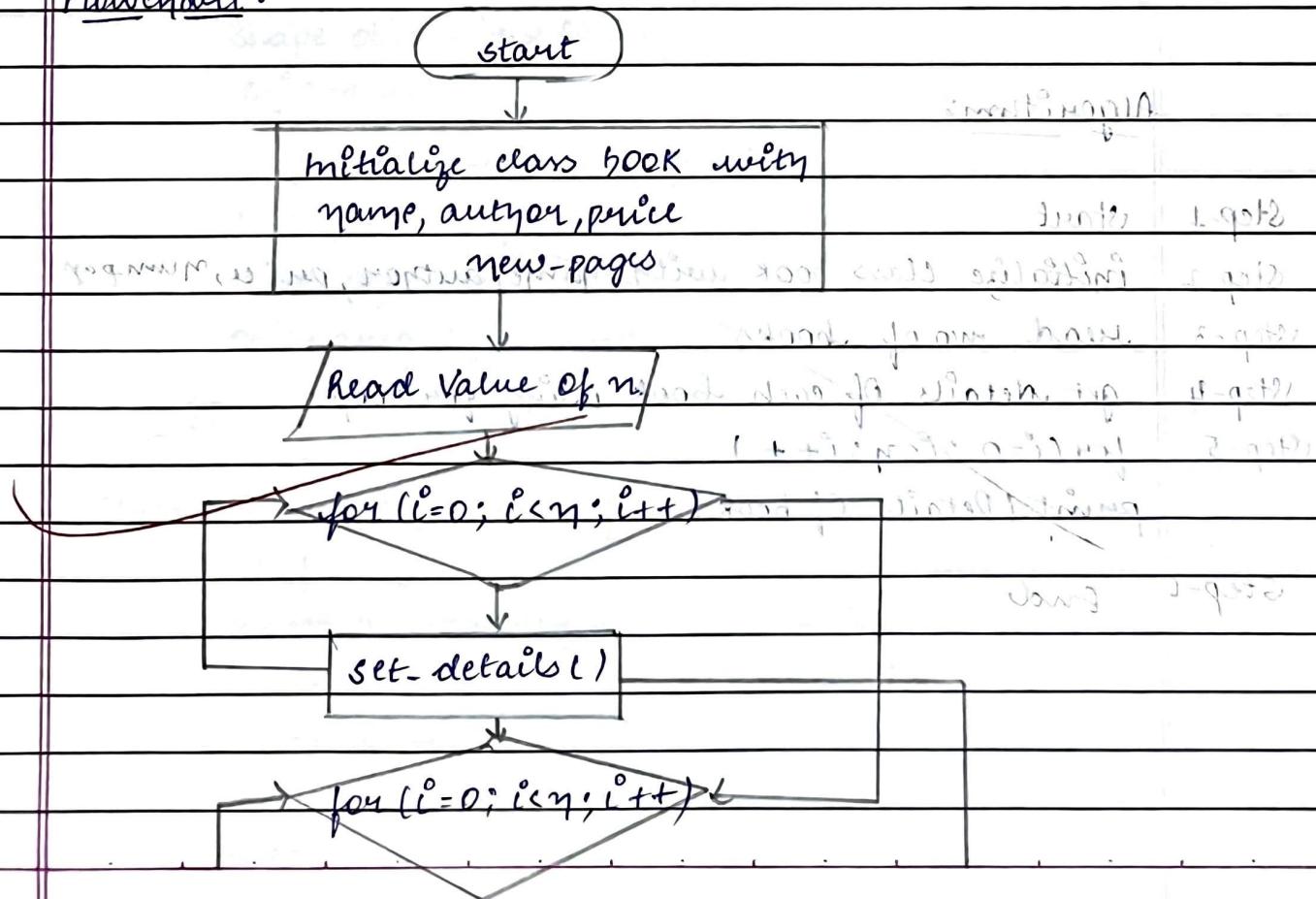
enter Name of author : Neil Name : It ends with us

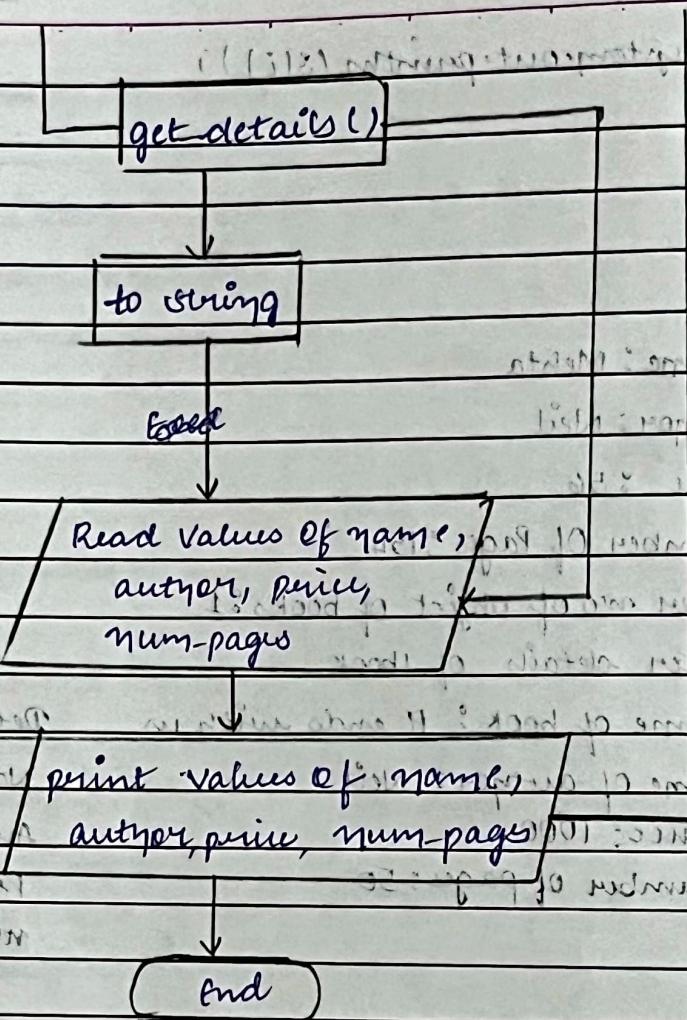
enter Price : 1000 Author : Neil

enter number of pages : 50 Price : 1000

no of pages : 50

Flowchart:





Algorithm:

- Step-1 Start
- Step-2 Initialize class book with ~~name, author, price, num-pages~~
- Step-3 Read no of books
- Step-4 ~~get details of each book using for loop~~
- Step-5 ~~for(i=0 ; i<n ; i++)~~
~~print(Details Of book)~~
- Step-6 End

Constructor values :

Name : Mehta

Author : neil

Price : 56

Number of pages : 154

Enter the number of object of books

1

Enter the details of 1book

Enter the name of the book

it starts with us

Enter the name of the author

collen hoover

Enter the price

458

Enter the number of pages

300

Details of the book1

Name : it starts with us

Author : collen hoover

Price : 458

Number of pages : 300

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