PROGRAM - 3

12/01/2024

```
import java.util.Scanner;
class book
{
  String name;
  String author;
  float price;
  int num_pages;

  Void set_details()
  {
     Scanner sc = new;
     Scanner (System.in);
      System.out.println("enter bookname, author,
     pages, price");
         name = sc.next();
         author = sc.next();
         price = sc.nextFloat();
         num_pages = sc.nextInt();
  }
  void get_details()
  {
     String details = toString();
     System.out.println(details);
  }
  public String toString()
{
  return "the book" + name + "was written by" +
  author + " it consists of " + num_pages + "pages
and costs around" + price;
}
  public static void main (String[] args)
    {
```

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```
Scanner scan = new Scanner (System.in);
System.out.println ("Enter no. of books you want
    to generate");
int n = scan.nextInt();
book b[] = new book[n];
for(int i=0; i<n; i++)
{
b[i] = new book();
b[i].set_details();
}
System.out.println("book details");
  System.out.println();
for(int i=0; i<n; i++)
{
  b[i].get_details();
}
}
}
```

=> Algorithm

Step 1: Start
Step 2: Initialise the variables name, author, price, num_pages
Step 3: Calling class book
Step 4: Input: "Enter bookname, author, Pages, prices
Step 5: Read the data
Step 6: Input: "Enter the no. of books you want to generate";
Step 7:
```
for(int i=0; i<n; i++)
{
  b[i] = new book();
  b[i].set_details();
}
```

Step 8: Input : "Book details"

Step 9: for(int i=0; i<n; i++)

{

b[i].get_details();

}

Step 10: Stop