## Program 3:

```java
import java.util.Scanner;

class book{

    String name;

    String author;

    int price;

    int num_pages;

    public book(String name,String author,int price,int num_pages){

        this.name = name;

        this.author = author;

        this.price = price;

        this.num_pages = num_pages;

    }

    book(){

        name = "";

        author = "";

        price = 0;

        num_pages = 0;

    }

    void set(){

        Scanner sx = new Scanner(System.in);

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

        name = sx.next();

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

        author = sx.next();

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

        price = sx.nextInt();

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

        num_pages = sx.nextInt();
```

```java
    }
    void get(){
        System.out.println(" name : "+name+"\n author : "+author+"\n price : "+price+"\n num of pages : "+num_pages);
    }
    public String toString(){
        return " name : "+name+"\n author : "+author+"\n price : "+price+"\n num of pages : "+num_pages;
    }
}
class lab3{
    public static void main (String args[]){
        int n;
        System.out.print("enter number of books : ");
        Scanner sx = new Scanner(System.in);
        n = sx.nextInt();
        book B[] = new book[n];
        for(int i=0;i<n;i++){
            System.out.println("enter details of book "+(i+1)+" : ");
            B[i] = new book();
            B[i].set();
            // B[i].get();
            System.out.println();
        }
        // for(int i=0;i<n;i++){
        //     B[i].get();
        // }
        for(int i=0;i<n;i++){
            System.out.println("details of book "+(i+1)+" : ");
            System.out.println(B[i]);
```

```
    }
    book b1 = new book("rich dad poor dad","robert",250,150);

    System.out.println();

    System.out.println("parameterized constructor : ");

    System.out.println(b1);

  }

}
```

O/P :

```
PS D:\3rd sem\JAVA\new practice> javac lab3.java
PS D:\3rd sem\JAVA\new practice> java lab3
enter number of books : 2
enter details of book 1 :
enter the name of book : automic_habbits
enter the author of book : james_clear
enter the price of book : 280
enter the number of pages of the book : 145

enter details of book 2 :
enter the name of book : 1984
enter the author of book : george_orwell
enter the price of book : 300
enter the number of pages of the book : 153
```

```
details of book 1 :
 name : automic_habbits
 author : james_clear
 price : 280
 num of pages : 145
details of book 2 :
 name : 1984
 author : george_orwell
 price : 300
 num of pages : 153

parameterized constructor :
 name : rich dad poor dad
 author : robert
 price : 250
 num of pages : 150
```