

### LAB PROGRAM 3

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 create n book objects.

```
import java.util.Scanner;

class book
{
    String name,author;
    int nop;
    double price;

    book()
    {
        name=" ";
        author=" ";
        nop=0;
        price=0.00;
    }

    void accept()
    {
        Scanner sc=new Scanner(System.in);

        System.out.println("enter name");
        name=sc.nextLine();

        System.out.println("enter author");
        author=sc.nextLine();

        System.out.println("enter number of pages and price");
```

```

        nop=sc.nextInt();

        price=sc.nextDouble();

    }

    public String toString() // when an object is printed this method is automatically called
    {

        return("name="+name+"\nauthor="+author+"\nnumber of
pages="+nop+"\nprice="+price); //return statement with String is required
    }

}

class bookmain
{

    public static void main(String[] args)
    {

        int n;

        Scanner sc=new Scanner(System.in);

        System.out.println("enter number of objects: ");
        n=sc.nextInt();

        book b[]=new book[n];

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

            b[i]=new book();

            b[i].accept();

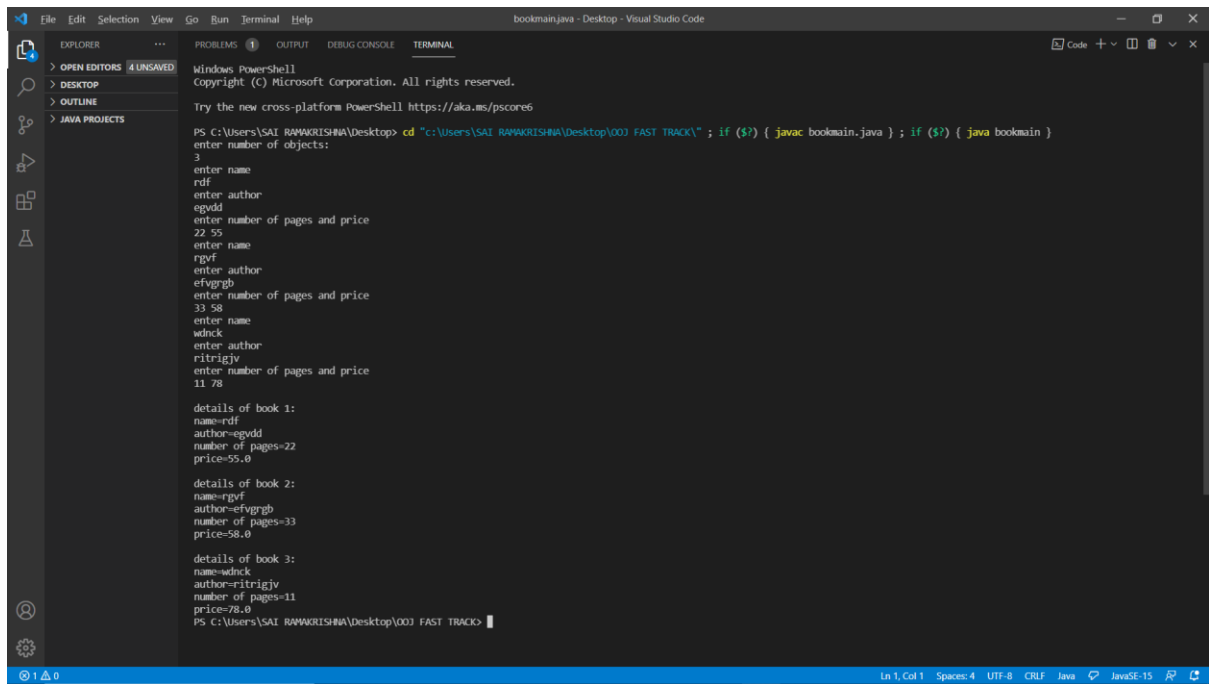
        }

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

            System.out.println("\ndetails of book "+(i+1)+":");

```

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



The screenshot shows a Visual Studio Code window with a terminal open. The terminal is running a Java application named 'bookmain.java'. The application prompts the user to enter the number of objects, followed by the name, author, number of pages, and price for each object. The user has entered 3 objects. The application then displays the details for each book.

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\SAI RAMAKRISHNA\Desktop\003 FAST TRACK\> cd "C:\Users\SAI RAMAKRISHNA\Desktop\003 FAST TRACK\" ; if ($?) { javac bookmain.java } ; if ($?) { java bookmain }

enter number of objects:
3
enter name:
rdf
enter author:
egvdd
enter number of pages and price:
22 55
enter name:
rgvf
enter author:
efvggb
enter number of pages and price:
33 58
enter name:
wdnck
enter author:
ritrigjv
enter number of pages and price:
11 78

details of book 1:
name=rdf
author=egvdd
number of pages=22
price=55.0

details of book 2:
name=rgvf
author=efvggb
number of pages=33
price=58.0

details of book 3:
name=wdnck
author=ritrigjv
number of pages=11
price=78.0
PS C:\Users\SAI RAMAKRISHNA\Desktop\003 FAST TRACK\>
```

The status bar at the bottom indicates the current file is 'Ln 1, Col 1', the encoding is 'UTF-8', the line endings are 'CRLF', and the language is 'Java'. The Java version is 'JavaSE-15'.

