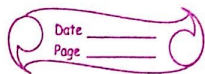


details of object. Include a toString() method that could display the complete details of book. Develop a Java program to create n book objects.



**Program-3** (Create a class book which contains name author price num-pages. Include a constructor to set the values for members. Include method to set & get the

```
import java.util.*;
```

```
import java.lang.*;
```

```
class Book
```

```
{
```

```
String name, author, int price, num-pages;
```

```
void getval()
```

```
{
```

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

```
System.out.println("Enter the book name");
```

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

```
System.out.println("Enter author name");
```

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

```
System.out.println("Enter price");
```

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

```
System.out.println("Enter No. of pages");
```

```
num-pages = sc.nextInt();
```

```
}
```

```
public String toString()
```

```
{
```

```
return name + " " + author + " " + price + " " +
```

```
num-pages + " ";
```

```
}
```

```
void display(Book o)
```

```
{
```

```
System.out.println(o);
```

```
}
```

```
}
```

```
class Bookvck
```

```
{
```

```

public static void main (String args[])
{
    Scanner in = new Scanner (System.in);
    System.out.println ("Enter the no. of book
    objects");
    int n = in.nextInt();
    Book [] ob = new Book[n];
    for (int i = 0; i < n; i++)
        ob[i] = new Book();
    for (int i = 0; i < n; i++)
        ob[i].getVal();
    for (int i = 0; i < n; i++)
        ob[i].display(ob[i]);
}
}

```

Output.

Enter the no. of book objects

1

Enter the book name

Alchemist

Enter the Author name

Palano

Enter price

750

Enter the number of pages

3000

Alchemist palano 750 3000

*Neelima  
2/12/2022*

Command Prompt

Microsoft Windows [Version 10.0.19044.2251]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd C:\Users\admin\Desktop\1BM21CS058-Dikxya

C:\Users\admin\Desktop\1BM21CS058-Dikxya>javac Bookvck.java

C:\Users\admin\Desktop\1BM21CS058-Dikxya>java Bookvck

Enter the no of book objects

1

Enter the book name

Alchemist

Enter author name

palano

Enter price

750

Enter the number of pages

3000

Alchemistpalano7503000

C:\Users\admin\Desktop\1BM21CS058-Dikxya>

Ln 11 Col 1

25°C Haze



details and a method to calculate sqpa of a student.

### Program-2

Develop a Java program to create a class student with members usn, name an array credits and an array marks. Include methods to accept and display

```
import java.util.Scanner;
```

```
class student {
```

```
void display (String name, String usn)
```

```
{
```

```
System.out.println("USN of the student" + usn);
```

```
System.out.println("Name of the student" + name);
```

```
}
```

```
void calculate sqpa (double [] marks, double [] credits,  
int number)
```

```
{
```

```
double grade points [] = new double [number];
```

```
double sqpa, sum = 0, tnum = 0;
```

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

```
{
```

```
if (marks[i] >= 90)
```

```
grade points[i] = 10;
```

```
else if (marks[i] >= 80)
```

```
grade points[i] = 9;
```

```
else if (marks[i] >= 70)
```

```
grade points[i] = 8;
```

```
else if (marks[i] >= 60)
```

```
grade points[i] = 7;
```

```
else if (marks[i] >= 50)
```

```
grade points[i] = 6;
```

```
else if (marks[i] >= 40)
```

```
grade points[i] = 4;
```

```
else
```

```
grade points[i] = 0;
```

```

2
for (int i = 0; i < number; i++)
{
    sum += credits[i] * gradePoints[i];
}

2
for (int i = 0; i < number; i++)
{
    tnum += credits[i];
}

2
sgpa = sum / tnum;
System.out.println("SGPA is" + sgpa);
}

2
class sgpa {
    public static void main (String args []) {
        Scanner s = new Scanner (System.in);
        System.out.println("Enter name and usn of student");
        String name = s.next();
        String usn = s.next();
        Student s1 = new Student();
        System.out.println("Enter the number of courses");
        int number = s.nextInt();
        double credits[] = new double [number];
        double marks[] = new double [number];
        for (int i = 0; i < number; i++)
        {
            System.out.print("Credit of subject" + (i+1) + ": ");
            credits[i] = s.nextDouble();
            System.out.print("Marks of subject " + (i+1) + ": ");
            marks[i] = s.nextDouble();
        }
        s1.display (name, usn);
    }
}

```

S1. calculate sgpa (marks, credits, number);

3

3

Output.

Enter name and usn of students

Dikshya IBM21CS058

Enter the number of courses

4

credits of subject 1: 4

Mark of subject 1: 82

credit of subject 2: 3

Mark of subject 2: 79

credit of subject 3: 3

Mark of subject 3: 87

credit of subject 4: 4

Marks of subject 4: 66

USN of the student IBM21CS058

Name of the student Dikshya

SGPA is 8.2142857.

*Neelima*  
2/12/2021



