

Lab program2--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 Student
{
    String name,usn;
    int credits[]= new int[20],marks[]= new int[20],gradepoints[]= new
int[20],n,nume=0,denom=0;
    double sgpa;
    void accept()
    {
        Scanner s=new Scanner(System.in);
        System.out.println("enter student name ,usn");
        name=s.next();
        usn=s.next();
        System.out.println("enter the number of subjects");
        n=s.nextInt();
        for(int i=0;i<n;i++)
        {
            System.out.println("enter subject"+(i+1)+"marks");
            marks[i]=s.nextInt();
            System.out.println("enter subject"+(i+1)+"credits");
            credits[i]=s.nextInt();
            denom+=credits[i];
        }
    }
    void calculate()
    {
        for(int i=0;i<n;i++)
        {
            if(marks[i]>=90)
                gradepoints[i]=10;
            else if(marks[i]>=80 && marks[i]<90)
                gradepoints[i]=9;
            else if(marks[i]>=70 && marks[i]<80)
                gradepoints[i]=8;
            else if(marks[i]>=60 && marks[i]<70)
                gradepoints[i]=7;
            else if(marks[i]>=50 && marks[i]<60)
                gradepoints[i]=6;
            else if(marks[i]>=40 && marks[i]<50)
                gradepoints[i]=4;
            else
                gradepoints[i]=0;
            nume+=credits[i]*gradepoints[i];
        }
        sgpa=nume/denom;
    }
    void display()
    {

```

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```

        System.out.println("Student_details");
        System.out.println("name :"+name+"\n"+"usn :"+usn+"\n");
        System.out.println("marks and grade");
        for(int i=0;i<n;i++)
        {
            System.out.println(marks[i]+"\\t"+gradepoints[i]);
            System.out.println();
        }
        System.out.println("SGPA :"+sgpa);
    }
}

class Studentdemo
{
    public static void main(String args[])
    {
        Student s=new Student();
        s.accept();
        s.calculate();
        s.display();
    }
}

```



```

C:\Users\bmce\Desktop\BM21CS064>javac lab_2.java

C:\Users\bmce\Desktop\BM21CS064>java lab_2
Enter the book details
ni

Enter the book details
if

C:\Users\bmce\Desktop\BM21CS064>java lab_2
Enter the name of the book: harrypotter
Enter the author's name: j l rowling
Enter the number of pages in the book: 645
Enter the price of the book: 675

Book details
Name: harrypotter
Author: j l rowling
Number of pages: 645
Price: 675.0

-----

Book details
Name: deception point
Author: dan brown
Number of pages: 28
Price: 87.65

-----

```

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```
import java.util.Scanner;  
class Book {  
    int num_pages;  
    double price;  
    String name;  
    String author;  
    Book() {  
        num_pages = 0;  
        price = 0.0;  
        name = "Some book";  
        author = "gagandeep";  
    }  
    Book (int num_pages, double price, String name,  
          String author) {  
        this.num_pages = num_pages;  
        this.price = price;  
        this.name = name;  
        this.author = author;  
    }  
    void get_details() {  
        System.out.println("Book details \n name : " +  
            name + " \n author : " +  
            author + " \n number of pages : " + num_pages +  
            " \n price : " + price);  
    }  
}
```

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```

        System.out.println("In .....");
    }
    public String toString() {
        return ("Book details in name : " + name +
            "In author : " + author + "In number of
            pages : " + num_pages + "In price : " +
            price + "In");
    }
}

Class Lab 2 {
    public static void main (String args[]) {
        Book b1 = new Book();
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the name of the book");
        String name = s.nextLine();
        System.out.println("Enter the author's name");
        String name = s.nextLine();
        System.out.println("Enter the number of pages");
        int num_pages = s.nextInt();
        System.out.println("Enter the price");
        double price = s.nextDouble();
        System.out.println();
        b1.set-data (num_pages, price, name, author);
        Book b2 = new Book (20, 57, 65, "Deepika
            " for the name");
    }
}

```


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```
b1.get-date();  
b2.get-date();  
System.out.println(b1);  
System.out.println(b2);  
S.close();  
}
```

Output

Enter the name of book: Harry Potter
enter the author's name: J.K. Rowling
enter the number of pages: 500
Enter the price: 450

Book details

name: Harry Potter
author: J.K. Rowling
number of pages = 500
price = 450

Neelima
21/12/2020

Book details

name: description point
author: dan brown
number of pages: 20
price: 87.65