

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.

CODE:

```
import java.util.*;
class Book{
    Scanner sc = new Scanner(System.in);
    String name;
    String author;
    int price;
    int num_pages;
    Book()
    {
        System.out.println("Enter book name");
        name = sc.next();
        System.out.println("Enter author name");
        author = sc.next();
        System.out.println("Enter number of pages");
        num_pages = sc.nextInt();
        System.out.println("Enter price");
        price = sc.nextInt();
    }
    void set()
    {
        System.out.println("All inputs are set");
    }
    void get()
    {
        System.out.println("The details of the book are" + name + " " + author + " " + num_pages + " " + price);
    }
    public String toString()
    {
        return name + " " + author + " " + num_pages + " " + price;
    }
}
class Main
{
    public static void main(String args[])
    {
        int r,i;
        System.out.println("Enter number of books");
        Scanner sc = new Scanner(System.in);
        r = sc.nextInt();
        Book b[] = new Book[r];
```

```
for(i = 0;i<r;i++)  
{  
b[i] = new Book();  
b[i].set();  
b[i].get();  
}  
for(i = 0;i<r;i++)  
{  
System.out.println(b[i]);  
}  
}  
}
```

WRITTEN CODE:

9/12/22

Book Program

Q Write a Java program to display book?

```
import java.util.*;  
class Book {  
    Scanner sc = new Scanner(  
        String name;  
        String author;  
        int price;  
        int numPages;  
        Book()  
    {  
        System.out.println("Enter Book  
        name = sc.next();  
        System.out.println("Enter  
        author = sc.next();  
        System.out.println("Enter  
        numPages = sc.nextInt();  
        System.out.println("Enter  
        price = sc.nextInt();  
    }  
    void set()
```

```

public String toString()
{
    return name + " " + author;
}
}

```

```

class main
{
    public static void main(String[] args)
    {
        int n, i;
        System.out.println("Enter number of books:");
        Scanner sc = new Scanner(System.in);
        n = sc.nextInt();
        Book b[] = new Book[n];
        for (i = 0; i < n; i++)
        {
            b[i] = new Book();
            b[i].set();
            b[i].get();
        }
        for (i = 0; i < n; i++)
        {

```

Output

Enter number of books

2

Enter book name

queer

Enter author name

alex

Enter number of pages

12

Enter price

23

All inputs are set

The details of book are 2 u

Enter book name

queer

Enter author name

alex

Enter number of pages

34

Enter price

OUTPUT:

```
Command Prompt
Enter number of courses
4
Enter marks
92 94 95 99
Enter the credits
1 2 3 4
The name of the student is: 23
The usn of the student is: wert
Total credits in this course is 10
Sum of grade points multiplied by credits is 100
SGPA is 10.0

C:\Users\Admin\Desktop\BMS\3RD SEM\OBJECT JAVA PROGRAMMING\Lab>javac Java3.java

C:\Users\Admin\Desktop\BMS\3RD SEM\OBJECT JAVA PROGRAMMING\Lab>java Main
Enter number of books
2
Enter book name
qwe
Enter author name
wer
Enter number of pages
52
Enter price
123
All inputs are set
The details of the book are qwe wer 52 123
Enter book name
sdf
Enter author name
dfg
Enter number of pages
456
Enter price
567
All inputs are set
The details of the book are sdf dfg 456 567
qwe wer 52 123
sdf dfg 456 567

C:\Users\Admin\Desktop\BMS\3RD SEM\OBJECT JAVA PROGRAMMING\Lab>
```