

Week 3

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3D Section

Batch D4

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;
    String author;
    int price;
    int num_pages;
    Book()
    {
        name="";
        author="";
        price=0;
        num_pages=0;
    }
    void set(String n,String a,int p,int page)
    {
```

```

        name=n;
        author=a;
        price=p;
        num_pages=page;
    }
    public String toString()
    {
        return("\nBook Name: "+name+"\nAuthor: "+author+"\nPrice:
"+price+"\nPages: "+num_pages);
    }
}

```

```

class program3{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        String n,a;
        int p,page,num;
        System.out.println("Enter the number of books:");
        num=sc.nextInt();
        Book b[]=new Book[num];
        for(int i=0;i<num;i++)
        {
            b[i]=new Book();
        }
        for(int i=0;i<num;i++)
        {

```

```
        sc.nextLine();
        System.out.println("Enter the name of the book:");
        n=sc.nextLine();
        System.out.println("Enter the author of the book:");
        a=sc.nextLine();
        System.out.println("Enter the price of the book:");
        p=sc.nextInt();
        System.out.println("Enter the number of pages:");
        page=sc.nextInt();
        b[i].set(n,a,p,page);
    }
    for(int i=0;i<num;i++)
    {
        System.out.println(b[i]);
    }
}
}
```

Output:

```
Command Prompt
C:\Users\Admin\Desktop\1BM21CS242>java program3
Enter the number of books:
2
Enter the name of the book:
Harry Potter
Enter the author of the book:
JK Rowling
Enter the price of the book:
340
Enter the number of pages:
400
Enter the name of the book:
Ramayana
Enter the author of the book:
Valmiki
Enter the price of the book:
500
Enter the number of pages:
700

Book Name: Harry Potter
Author: JK Rowling
Price: 340
Pages: 400

Book Name: Ramayana
Author: Valmiki
Price: 500
Pages: 700
```