

LAB - 3

- Q) 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() that could display the complete details of the book. Develop a java program to create n book objects.

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

```
class Books {
```

```
    String name;
```

```
    String author;
```

```
    int price;
```

```
    int numPages;
```

```
    Books (String name, String author, int price,  
           int numPages)
```

```
    {
```

```
        this.name = name;
```

```
        this.author = author;
```

```
        this.price = price;
```

```
        this.numPages = numPages;
```

```
    }
```

```
    public String toString ()
```

```
    {
```

```
        String name, author, price, numPages;
```

```
        name = "Book Name:" + this.name + "\n";
```

```
        author = "Author Name:" + this.author + "\n";
```

```
        price = "Price:" + this.price + "\n";
```



```

numPages = "Number of Pages : " + this.numPages
            + "\n";
return name + author + price + numPages;
}
};

```

```

class Main {

```

```

    public static void main (String args[])
    {

```

```

        Scanner sc = new Scanner (System.in);

```

```

        int n;

```

```

        String name, author;

```

```

        int price, numPages;

```

```

        System.out.println ("Enter number of Books n");

```

```

        n = sc.nextInt();

```

```

        Books b[];

```

```

        b = new Books [n];

```

```

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

```

```


```

```

            System.out.println ("Enter the name,
            author, price, number of Pages of the book");

```

```

            name = sc.next();

```

```

            author = sc.next();

```

```

            price = sc.nextInt();

```

```

            numPages = sc.nextInt();

```

```

            b[i] = new Books (name, author, price,
                               numPages);

```

```

        }

```

```

        System.out.println ("The books details:\n");

```

```

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

```

```


```

```

            System.out.println (b[i].toString());

```

```

        }
    }
}

```


Output:

Enter the Number of Books.

2

Enter the name, author, price and number of pages of the book:

java

xyz

1200

100

Enter the name, author, price and number of pages of the book:

C++

abc

1500

243

The Book details:

Book name : java

Author name : xyz

Price : 1200

Number of Pages : 100

Book name : C++

Author Name : abc

Price : 1500

~~Number of Pages : 243.~~

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