

LAB-3.

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NAME: ANSHUL H. SURANA
USN: IBM19C8020

Q-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.

```
→ import java.util.Scanner;
class book
{
    String name, author;
    int price, num_pages;

    void book()
    {
        name = " ";
        author = " ";
        price = 0;
        num_pages = 0;
    }

    void get1()
    {
        Scanner get = new Scanner(System.in);
        System.out.println("Enter the name:");
        name = get2.next();
        System.out.println("Enter the author:");
        author = get2.next();
        System.out.println("Enter the price:");
        price = get2.nextInt();
        System.out.println("Enter the no. of pages:");
        price = get2.nextInt();
    }
}
```

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Anshul H. Surana


```

void out()
{
    System.out.println ("NAME: " + name);
    System.out.println ("AUTHOR: " + author);
    System.out.println ("PRICE: " + price);
    System.out.println ("PAGES: " + num_pages);
}

```

```

public String toString()
{
    return ("NAME: " + name + "AUTHOR: " +
            author + "PRICE: " + price + "PAGES: " +
            num_pages);
}

```

```

class Main

```

```

{
    public static void main (String args[])
    {
        Scanner get = new Scanner (System.in);
        int n, ch;
        System.out.println ("Enter the no. of books
                             to be entered:");
    }

```

```

    n = get.nextInt();
    book b[] = new book[n];
    for (int i=0; i<n; i++)
    {
        b[i] = new book();
        b[i].get();
    }

```

```

    System.out.println ("Display");

```

```

    ch = get.nextInt();

```

```

    switch(ch)
    {

```

```

        case 1: for (int i=0; i<n; i++)
        {
            b[i].out();
        }
        break;

```

```

        case 2: for (int i=0; i<n; i++)

```

```

        {
            System.out.println (b[i]);
        }
        break;

```

```

        default: System.out.println ("Enter valid no.");
    }
}

```