LAB 3

```
import java.util.Scanner;
class Book{
String name;
String author;
int price;
int num_pages;
Scanner p = new Scanner(System.in);
Void details(){
System.out.println("Enter the name of the book");
name = p.nextLine();
System.out.println("Enter the name of author");
author = p.nextLine();
System.out.println("Enter the price of book");
price = p.nextInt();
System.out.println("Enter the number of pages in the book
num_pages = p.nextInt();
}
public String toStrig(){
return ("name :"+name+"\n author :"+author+"\n price:
+price+"\n num_pages :"+num_pages);
}
}
class Bk{
public static void main(String args[]){
Scanner q = new Scanner(System.in);
Book obj[] = new BOOK[10];
int n;
System.out.println("Enter the number of objects required
n = q.nextInt();
```

```
for (int i=0; i<n; i++)
 {
  obj[i] = new Book();
  obj[i].details();
  System.Out.println(" "+obj[i].toString());
  }
  }
  }
```

Output.

```
Enter the number of objects required:
1
Enter name of book
A
Enter author of book
B
Enter the price of book
2500
Enter the number of pages in the book
980
name: A
author: B
price: 2500
num-pages: 980
```

Algorithm:-

Step 1:- create a class "Book", declare members.
Step 2:- Declare a Method "details" in which you take input
Step 3:- Declare "string toString" method and return required values
Step 4:- Create another class "Bk"
Step 5:- declare "main" function.
Step 6:- declare an array of objects.
Step 7:- display the values of objects using "details" Method

```
import java.util.Scanner;
class Book{
String name;
String author;
int price;
int num_pages;
Scanner p=new Scanner(System.in);
void details(){
System.out.println("Enter the name of the book");
name=p.nextLine();
System.out.println("Enter the of Author");
author=p.nextLine();
System.out.println("Enter the price of the book");
price=p.nextInt();
System.out.println("Enter the number of pages in the book");
num_pages=p.nextInt();
}
public String toString(){
return ("name:"+name+"\n author:"+author+"\n price:"+price+"\n num_pages:"+num_pages);
}
}
class Bk{
public static void main(String args[]){
Scanner q=new Scanner(System.in);
Book obj[]=new Book[10];
int n;
System.out.println("Enter the number of objects required:");
n=q.nextInt();
for(int i=0;i<n;i++)
{
obj[i]=new Book();
obj[i].details();
System.out.println(""+obj[i].toString());
}
}
}
```

```
C:\Users\PUNEETH K\Desktop\JAVA>javac Bk.java

C:\Users\PUNEETH K\Desktop\JAVA>java Bk
Enter the number of objects required:
2
Enter the name of the book
a
Enter the of Author
b
Enter the price of the book
2500
Enter the number of pages in the book
980
name:a
 author:b
 price:2500
 num_pages:980
Enter the name of the book
c
Enter the of Author
d
Enter the price of the book
3000
Enter the number of pages in the book
450
name:c
 author:d
 price:3000
 num_pages:450

C:\Users\PUNEETH K\Desktop\JAVA>
```