LAB - 03 :-

1] 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 to string() 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;

Book (string name, string author, int price, int numPages)
{
    this.name = name;
    this.author = author;
    this.price = price;
    this.numPages = numPages;

Public string tostring () {
    string bookDetails = "Book name :" + this.name + "\n" + "Author name :" + this.author + "\n" + "Price :" + this.price

    return bookDetails;
    }
}

public class Main {
    public static void main (string args [] ) {
    Scanner s = new scanner (System. in);
```

```java
system.out.print("Enter the number of books:
int n = s.nextInt();

Book[] books = new Book[n];

for(int i = 0; i<n; i++) {
system.out.println("Enter details for Book" +(i+
system.out.print("Name:");
String name = s.next();
system.out.print(price:");
int price = s.nextInt();
system.out.print("Number of pages:");
int numPages = s.nextInt();


books[i] = new Book(name, author, price, numPage
}
system.out.println("\nDetails of the books:
for(int i=0; i<n; i++) {
system.out.println("Book" + (i+1) + ":\n
+ books[i].toString());
}
}
}
```

→ Output: Enter the number of books: 2
Enter details for Book 1
Name : harry style s
Author : harry
price : 600
Number of pages : 275
Enter details for Book 2
Name : conan gray
Author : conan

price : 45 0
Number of pages : 450.

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```java
import java.util.Scanner;

class Book {
    String name;
    String author;
    int numPages;
    int price;


    Book(String name, String author, int price, int numPages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }

    public String toString() {
        String bookDetails = "Book name:" + this.name + "\n" + "Author name:" + this.author + "\n" + "Price:" + this.price
                + "\n" + "Number of pages: " + this.numPages + "\n";
        return bookDetails;
    }
}

public class Main {
    public static void main(String args[]) {
        Scanner s = new Scanner(System.in);

        System.out.print("Enter the number of books: ");
        int n = s.nextInt();

        Book[] books = new Book[n];

        for (int i = 0; i < n; i++) {
            System.out.println("Enter details for Book " + (i + 1));
            System.out.print("Name: ");
            String name = s.next();
            System.out.print("Author: ");
            String author = s.next();
            System.out.print("Price: ");
            int price = s.nextInt();
            System.out.print("Number of pages: ");
            int numPages = s.nextInt();

            books[i] = new Book(name, author, price, numPages);
        }
        System.out.println("\nDetails of the books:");
        for (int i = 0; i < n; i++) {
            System.out.println("Book " + (i + 1) + ":\n" + books[i].toString());
        }
    }
}
```

```
C:\Users\Languagr lab 22\Desktop\NEWWW>java main
Error: Could not find or load main class main
Caused by: java.lang.NoClassDefFoundError: main (wrong name: Main)

C:\Users\Languagr lab 22\Desktop\NEWWW>java Main
Enter the number of books: 2
Enter details for Book 1
Name: harrystyles
Author: harry
Price: 600
Number of pages: 275
Enter details for Book 2
Name: conangray
Author: conan
Price: 450
Number of pages: 450
```