PROGRAM 3:

```
int import java.util.scanner;
class Book {
String name;
String author;
int price;
int numPages;
                                       string
public Book (string name, author, int price, int num
this.name = name;
this.author = author;
this.price = price;
this.numPages = numPages;
}

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

class Main {
public static void main (String[] args) {
Scanner scanner = new Scanner (system.in);
System.out.print ("enter the number of books:");
int n = scanner.nextInt ();
Book [] books = new Book [n];
for (int i=0; i<n; i++) {
system.out.print ("enter name of the book:");
String name = scanner.next ();
```

```
System.out.print ("enter author of the book:");
string author = scanner.next();


system.out.print ("enter price of the book,");
int numPages = scanner.nextInt();

System.out.print ("enter the number of pages:");
int numPages = scanner.nextInt();


    books[i] = new Book (name, author, price, numPages)
}

System.out.println ("\n Book Details:");
for (int i=0; i<n; i++){
    System.out.println ("Book" + (i+1) + ":\n" +books[i]);
    }
  }
}
```

Output:

```
Enter the number of books : 2
Enter name of the book : Harry Potter
Enter author of the book : JK Rowling
Enter the price of the book : 500
Enter the number of pages of the book : 600
Enter name of the book : JungleBook
Enter author of the book : RuskinBond
Enter the price of the book : 200
Enter the number of pages of the book : 300
```

Book Details:

Book 1:

Book name: HarryPotter
Author name: JK.Rowling
Price: 500
Number of pages: 600

Book 2

Book name: JungleBook
Author name: RuskinBoad
price: 200
Number of pages: 300

PROGRAM 1:

```java
class OverloadDemo {
void test () {
System.out.println ("no parameters");
}
void test (int a) {
System.out.println ("a:" +a);
}
void test (int a, int b)
{
system.out.println (" a and b: "+a +" "+b);
}
double test (double a) {
system.out.println ("double a: "+a);
return a*a;
}
}
```

```
class Overload {
public static void main (String args[]){
OverloadDemo ob = new OverloadDemo ();
double result;
ob.test();
ob.test (10);
ob.test (10, 20);
result = ob.test (123.2);
system.out.println (" ob.test (123.2): " + result);
}
}
```

Output:

no parameters

a: 10

a and b : 10   20

double a: 123.2

ob.test (123.2): 15178.2 400000000002.

26.12