Main:

```
public class Main {
    public static void main(String[] args)
    {
       /* customer c1 = new customer(100,"varun",5000);
        System.out.println(c1);*/

        /*customer c2 = new customer();
        c2.setCustid(200);
        c2.setCustname("suhas");
        c2.setBalance(4000);
        System.out.println(c2.getCustname()+"  "+c2.getBalance());*/

       /* customer c3 = new customer(300,"ajay",10000);
        System.out.println(c3.getCustid()+"  "+c3.getBalance());*/

        person p1 = new person();
        p1.setPid(101);
        p1.setName("varun");
        System.out.println(p1);
    }
}
```

customer class:

```
import lombok.*;

//@Getter
@AllArgsConstructor
//@Setter
@ToString
@NoArgsConstructor
public class customer {
    @Getter
    private int custid;
    private String custname;
    @Getter
    private int balance;

}
```

person class:

```
import lombok.Data;

public @Data
class person {
    private int pid;
    private String name;
}
```

output:

```
person(pid=101, name=varun)
```

==========

Main:

```
package com.torryharris.mainpack;

import java.io.*;

public class Main {

    public static void main(String[] args) {
   // write your code here
        File file1 = new File("C:\\Users\\varun_srinivas\\Desktop\\thfile1.txt");
        File file2 = new File("C:\\Users\\varun_srinivas\\Desktop\\thfile2.txt");

        try(FileReader f = new FileReader(file1);
            BufferedReader b = new BufferedReader(f);
            FileWriter fw = new FileWriter(file2,true);
            BufferedWriter bw = new BufferedWriter(fw);)
        {
            String str;
            while ((str=b.readLine())!=null)
            {
                System.out.println(str);
                bw.write(str);
                bw.newLine();
            }
        } catch (FileNotFoundException e) {
            e.printStackTrace();
        } catch (IOException e) {
            e.printStackTrace();
        }


    }
}
```

output:

```
good evening

rcb

varun

end.........
```

==========

Main:

```
package com.torryharris.mainpack;

import java.io.*;

public class Main {
```

```
    public static void main(String[] args) {
   // write your code here
        File file1 = new File("C:\\Users\\varun_srinivas\\Desktop\\thfile1.txt");
        File file2 = new File("C:\\Users\\varun_srinivas\\Desktop\\thfile3.txt");

        try(FileInputStream f=new FileInputStream(file1);
            BufferedInputStream b = new BufferedInputStream(f);
            FileOutputStream o = new FileOutputStream(file2);
            BufferedOutputStream bo=new BufferedOutputStream(o);) {


            int c;
            while ((c=b.read())!=-1)
            {
                bo.write(c);
                System.out.print((char)c);
            }

        } catch (FileNotFoundException e) {
            e.printStackTrace();
        } catch (IOException e) {
            e.printStackTrace();
        }


    }
}
output:

ood evening

rcb

varun

End.........

================================================================================

Main:

package com.torryharris.mainpack;

import java.io.*;

public class Main {

    public static void main(String[] args) {
   // write your code here
        File file1 = new File("C:\\Users\\varun_srinivas\\Desktop\\thfile1.txt");
        File file2 = new File("C:\\Users\\varun_srinivas\\Desktop\\thfile4.txt");

        try(FileInputStream f=new FileInputStream(file1);
            BufferedInputStream b = new BufferedInputStream(f);
```

```
            FileOutputStream o = new FileOutputStream(file2);
            BufferedOutputStream bo=new BufferedOutputStream(o);) {


            byte[] buffer = new byte[f.available()];
            b.read(buffer);
            bo.write(buffer);
            for(byte z:buffer)
            {
                System.out.print((char)z);
            }

        } catch (FileNotFoundException e) {
            e.printStackTrace();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
output:

good evening

rcb

varun

End.........

==========================================================================================

Main:

package com.torryharris.mainpack;

import com.torryharris.spack.student;

import java.io.*;



public class Main {

    public static void main(String[] args) {
   // write your code here
        File file1 = new File("C:\\Users\\varun_srinivas\\Desktop\\student1.dat");

        try(//FileInputStream f=new FileInputStream(file1);
            //BufferedInputStream b = new BufferedInputStream(f);
            FileOutputStream o = new FileOutputStream(file1);
            //BufferedOutputStream bo=new BufferedOutputStream(o);)
            ObjectOutputStream n = new ObjectOutputStream(o);
            FileInputStream f = new FileInputStream(file1);
            ObjectInputStream in = new ObjectInputStream(f);)
```

```
            {



            student std = new student(111,"varun",95);
            n.writeObject(std);
            System.out.println("student record written in file1");


                while (f.available()>0)
                {
                    student student1 = (student) in.readObject();
                    System.out.println(student1);
                }


        } catch (FileNotFoundException e) {
            e.printStackTrace();
        } catch (IOException e) {
            e.printStackTrace();
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
    }
```

student cass:

```
package com.torryharris.spack;

import java.io.Serializable;

public class student implements Serializable {
    private int id;
    private String name;
    private int marks;

    public student(int id, String name, int marks) {
        this.id = id;
        this.name = name;
        this.marks = marks;
    }

    @Override
    public String toString() {
        return "student{" +
                "id=" + id +
                ", name='" + name + '\'' +
                ", marks=" + marks +
                '}';
    }
```

```
}
```

Output:

```
student record written in file1

student{id=111, name='varun', marks=95}
```

==========

```
import java.sql.*;

public class Main {

public static void main(String[] args) throws ClassNotFoundException, SQLException {
 // Load the driver
 //Class.forName("com.mysql.jdbc.Driver");
 //Establish connection with database using drivers
 Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/bookdb","root","Varun@0103");
 // create a statement object
 Statement st = con.createStatement();
 // execute the query
 ResultSet rs = st.executeQuery("select * from book");
 // extract the rows form the rs -----> ResultSet object
 while (rs.next())
 {
 System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
 }
 // close the connection
 con.close();

}
 }
```

output:

```
11 java 300

13 html 250

12 python 450

33 dbms 500
```

==========

Bookstoremain:

```
package mainuipack;

import bookop.bookoperationimpl;
import model.book;

import java.util.ArrayList;
```

```java
import java.util.Scanner;

public class bookstoreMain {
    public static void main (String[] args)
    {
        Scanner sc = new Scanner(System.in);
        bookoperationimpl boi = new bookoperationimpl();
        while (true)
        {
            System.out.println("1. add a book");
            System.out.println("2. list all the books");
            System.out.println("3. get a book");
            System.out.println("4. update a book price");
            System.out.println("5. exit");

            System.out.println("enter your choice");
            int choice=sc.nextInt();

            switch (choice)
            {
                case 1:
                {
                    System.out.println("enter details of the book");
                    int bookid=sc.nextInt();
                    String bookname=sc.next();
                    int bookprice=sc.nextInt();
                    book b = new book(bookid,bookname,bookprice);
                    System.out.println(boi.addabook(b));
                    break;
                }
                case 2:
                {
                    ArrayList<book> blist = boi.getallbooks();
                    for(book book:blist)
                    {
                        System.out.println(book);
                    }
                    break;
                }
                case 3:
                {
                    System.out.println("enter the book id to be searched ");
                    int bookid=sc.nextInt();
                    book book=boi.getbook(bookid);
                    if(book!=null)
                    {
                        System.out.println(book);
                    }
                    else
                        System.out.println("book does not found in the store");
                    break;
                }
                case 4:
```

```
                {
                    System.out.println("enter the bookid");
                    int bookid=sc.nextInt();
                    System.out.println("enter the updated price of the book");
                    int upprice=sc.nextInt();
                    System.out.println(boi.setBookprice(bookid,upprice));
                    break;
                }
                default:
                    sc.close();
                    System.out.println("bye bye...");
                    System.exit(0);
            }
        }
    }
}
```

bokoeratons:

```
package bookop;

import model.book;

import java.util.ArrayList;

public interface bookoperstions {
    String addabook(book b);
    ArrayList<book> getallbooks();
    book getbook(int bookid);
    String setBookprice(int bookid,int upprice);
}
```

book:

```
package model;

public class book {
    private int bookid;
    private String bookname;
    private int bookprice;

    public book(int bookid, String bookname, int bookprice) {
        this.bookid = bookid;
        this.bookname = bookname;
        this.bookprice = bookprice;
    }

    public int getBookid() {
        return bookid;
    }

    public String getBookname() {
        return bookname;
    }
```

```
    public int getBookprice() {
        return bookprice;
    }

    public void setBookprice(int bookprice) {
        this.bookprice = bookprice;
    }

    @Override
    public String toString() {
        return "book{" +
                "bookid=" + bookid +
                ", bookname='" + bookname + '\'' +
                ", bookprice=" + bookprice +
                '}';
    }
}
```

bookoperationimpl:

```
package bookop;

import model.book;

import java.util.ArrayList;

public class bookoperationimpl implements bookoperstions{
    private ArrayList<book> blist = new ArrayList<book>();

    @Override
    public String addabook(book b) {
        blist.add(b);
        return "book added successfully";
    }

    @Override
    public ArrayList<book> getallbooks() {
        return blist;
    }

    @Override
    public book getbook(int bookid) {
        for(book book:blist)
        {
            if(book.getBookid()==bookid)
                return book;
        }
        return null;
    }

    @Override
    public String setBookprice(int bookid,int upprice) {
        book book = getbook(bookid);
```

```
        book.setBookprice(upprice);
        return "book prive updated sucessfully!!";
    }
}
```

output:

```
1. add a book

2. list all the books

3. get a book

4. update a book price

5. exit

enter your choice

1

enter details of the book

55

css

500

book added successfully

1. add a book

2. list all the books

3. get a book

4. update a book price

5. exit

enter your choice

2

book{bookid=55, bookname='css', bookprice=500}

1. add a book

2. list all the books

3. get a book

4. update a book price

5. exit

enter your choice

3

enter the book id to be searched

54
```

```
book does not found in the store
1. add a book
2. list all the books
3. get a book
4. update a book price
5. exit
enter your choice
4
enter the bookid
55
enter the updated price of the book
600
book prive updated sucessfully!!
1. add a book
2. list all the books
3. get a book
4. update a book price
5. exit
enter your choice
5
bye bye...
================================================================================
```