Case study

1 Create a class Book with (bookId,price) as fields. Create a class TextBook with author and title as fields.
Create a class NoteBook with noOfPages as field. Define constructors as required for all the classes.

Write a main method in the client class.with the following as the sample code:

```
// sample

//read type of book

If booktype is 1
                    //create object of TextBook
Else if booktype is 2
            //create object of notebook

// call printDetails to print the details of the book.
```

2 Create a group of classes (Person,Address,HR,Employee,Customer,Manager,Biller) as per the following rules.

1. Class Relationship have to be logical
2. All persons have an address.
3. Address has plotNo,streetNo,city.
4. HR maintains the details of Employee
5. Biller generates a Bill for any Customer, printing his complete details.
6. All the classes except Billerclass have a print() method to print the details.

3 Create a class MyObject that has a method equals() that takes any two object references ,returns true if they refer to the same object

B Create a class MyClass that extends MyObject, and overrides equals() method that returns true if the content of the two objects are same otherwise returns false.

4 Create a class of your choice with some attributes, override equals() ,hashcode() ,toString() methods.
equals() compares content of two objects.
hashcode() evaluates the hashcode.
toString() prints the content of the object.