```java
import java.util.Scanner;
class Book
{
        private String name,author;
        private double price;
        private int num_pages;

        Book()
        {
                name="A";
                author="BCD";
                price=340.0;
                num_pages=500;
        }

        void Input()
        {
                Scanner sc=new Scanner(System.in);
                System.out.println("Enter the book name: ");
                name=sc.nextLine();
                System.out.println("Enter the author name: ");
                author=sc.nextLine();
                System.out.println("Enter the the no.of pages: ");
                num_pages=sc.nextInt();
                System.out.println("Enter the price: ");
                price=sc.nextDouble();
        }

        public String toString()
        {
                String temp="Book name: "+name+"\nAuthor name: "+author+"\nNo.of pages: "+num_pages+"\nPrice: "+price+"\n";
                return(temp);
        }

}
```

```java
class 8
{
    public static void main(String args[])
    {
        int i,n;
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number of books: ");
        n=sc.nextInt();
        Book[] obj=new Book[n];
        for(i=0;i<n;i++)
        {
            obj[i]=new Book();
        }
        System.out.println("\t\t**Enter Book Details**");
        for(i=0;i<n;i++)
        {
            System.out.println("\nBook "+(i+1)+";");
            obj[i].Input();
        }
        System.out.println("Book Details:");
        for(i=0;i<n;i++)
        {
            System.out.println(obj[i]);
        }
    }
}
```

```
16-10-2020  15:59              2,185 Student1.java
16-10-2020  17:47              2,264 Student2.class
17-10-2020  10:59              1,801 Student2.java
09-11-2020  23:49                700 triangle.class
              40 File(s)         47,896 bytes
               2 Dir(s)  135,723,421,696 bytes free

C:\Users\vedika\Desktop\javap>javac b.java

C:\Users\vedika\Desktop\javap>java B
Enter the number of books: 2
               **Enter Book Details**


Book 1:
Enter the book name:
Merchant Of Venice
Enter the author name:
William Shakespeare
Enter the the no.of pages:
150
Enter the price:
250


Book 2:
Enter the book name:
To kill a Mockingbird
Enter the author name:
Harper Lee
Enter the the no.of pages:
160
Enter the price:
300
Book Details:
Book name: Merchant Of Venice
Author name: William Shakespeare
No.of pages: 150
Price: 250.0


Book name: To kill a Mockingbird
Author name: Harper Lee
No.of pages: 160
Price: 300.0


C:\Users\vedika\Desktop\javap>
```

File Edit Format View Help

```java
import java.util.Scanner;
class Account
{
private String name;
private long account_number;
private int account_type;
double balance;
void Input()
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter Account Holder Name");
name = sc.nextLine();
System.out.println("Enter the account Number");
account_number=sc.nextLong();
System.out.println("Choose the account type:\n1.savings account\n2.current account");
account_type=sc.nextInt();
}
void get_data(){
System.out.println("Account Holder: "+name);
System.out.println("Account Number: "+account_number);
}
int return_account_type()
{
return account_type;
}
}
class savings extends Account
{
Scanner sc=new Scanner(System.in);
double amount;
void get_sav_balance()
{
System.out.println("Enter the Amount to be placed in your Savings Account");
amount=sc.nextDouble();
balance+=amount;
}
void display_sav_blnce()
{
System.out.println("balance= "+balance);
}
```

```java
void compute_sav_interest()
{
System.out.println("\n***Calculating Compound Interest***");
System.out.println("Enter annual interest rate: ");
float rate = sc.nextFloat();
System.out.println("Enter time in years: ");
float time = sc.nextFloat();
System.out.println("Enter principle: ");
float principle = sc.nextFloat();
float CI = (float)((principle*(Math.pow((1 + rate / (12*100)),(12*time))))-principle);
System.out.println("The Compound Interest is: " +CI);
balance = balance+CI;
System.out.println("Balance after adding Interest: "+balance);
}
void withdrawl_sav()
{
System.out.println("Enter the amount to be withdrawn");
amount = sc.nextDouble();
balance=balance-amount;
}
}
class current extends Account
{
Scanner sc = new Scanner(System.in);
double amount;
final double min_balance=500;
void get_cur_balance()
{
System.out.println("Enter the amount to be placed in your current account");
amount+=sc.nextDouble();
balance+=amount;
}
void display_cur_blnce()
{
System.out.println("Balance = "+balance);
}
}
```

```java
void compute_cur_service_charges()
{
if(balance<min_balance)
{
System.out.println("service tax of rs.100 shall be levied");
balance=balance-100;
}
else
{
System.out.println("Minimum balance is Maintained");
}
}
void withdrawl_cur()
{
System.out.println("Enter the amount to be withdrawn");
amount=sc.nextDouble();
balance=balance-amount;
}
}
class BankF
{
public static void main(String args[])
{
Scanner sc = new Scanner(System.in);
int type;
System.out.println("enter the bank details");
Account acc=new Account();
acc.Input();
type=acc.return_account_type();
if (type==1)
{
System.out.println("SAVINGS ACCOUNT");
acc.get_data();
savings sav = new savings();
sav.get_sav_balance();
sav.display_sav_blnce();
System.out.println("Calculating Interest:\n");
sav.compute_sav_interest();
sav.display_sav_blnce();
sav.withdrawl_sav();
sav.display_sav_blnce();
}
```

```
if(type==2)
{
System.out.println("CURRENT ACCOUNT");
acc.get_data();
current cur=new current();
cur.get_cur_balance();
cur.display_cur_blnce();
cur.compute_cur_service_charges();
cur.display_cur_blnce();
cur.withdrawl_cur();
cur.display_cur_blnce();
}
}
}
```

```
07-11-2020  15:07           1,207 Sav_acct.class
25-09-2020  23:07             998 Series.class
25-09-2020  23:07             403 Series.java
09-11-2020  23:40             269 Shape.class
25-09-2020  22:59           1,322 Shape.java
09-10-2020  12:53             210 Student.java
16-10-2020  15:59           2,422 Student1.class
16-10-2020  15:59           2,185 Student1.java
16-10-2020  17:47           2,264 Student2.class
17-10-2020  10:59           1,901 Student2.java
09-11-2020  23:40             700 triangle.class
              43 File(s)         53,816 bytes
               2 Dir(s)  135,718,027,264 bytes free

C:\Users\vedika\Desktop\javap>javac BankF.java

C:\Users\vedika\Desktop\javap>java BankF
Enter the bank details
Enter Account Holder Name
ARUN
Enter the account Number
12346
Choose the account type:
1.savings account
2.current account
1

SAVINGS ACCOUNT
Account Holder: ARUN
Account Number: 12346
Enter the Amount to be placed in your Savings Account
12000
balance= 12000.0
Calculating Interest:

***Calculating Compound Interest***
Enter annual interest rate:
1
Enter time in years:
1
Enter principle:
12000
The Compound Interest is: 1128.6438
Balance after adding Interest: 13128.643798828125
Balance- 13128.643798828125
Enter the amount to be withdrawn
1200
balance- 11928.643798828125
```