

9.2

```
public class Cart {  
    private String itemName;  
    private int price;  
    private int quantity;  
  
    public void setItemName (String itemName) {  
        this.itemName = itemName;  
    }  
  
    public String getItemName () {  
        return itemName;  
    }  
  
    public void setPrice (int price) {  
        this.price = price;  
    }  
  
    public int getPrice () {  
        return price;  
    }  
  
    public static void main (String [] args) {  
        Cart obj = new Cart ();  
        obj.setItemName ("Butter");  
        obj.setPrice (50);  
        System.out.println ("The details we have  
        set are!");  
        System.out.println (obj.getItemName ());  
        System.out.println (obj.getPrice ());  
    }  
}
```

```
class Account {
    String customerName;
    long accNo;
    String accountType;
    double balance;
    public Account (String customerName, long
accNo, String accountType) {
        this.accNo = accNo;
        this.accountType = accountType;
        this.balance = 0.0;
    }
    public void displayBalance() {
        System.out.println ("Account Number is " + accNo);
        System.out.println ("Customer Name : " + customerName);
        System.out.println ("Account Type : " + accountType());
        System.out.println ("Balance : " + balance);
    }
}
```

```
class WBank extends Account {
    double minBalance;
    double serviceCharge;
    public WBank (String customerName,
long accNo) {
        super (customerName, accNo, "Current");
        this.minBalance = 500.0;
        setMinimumBalance();
    }
}
```

class servicecharge account

```
set service charge () {  
    this.servicecharge = 50.0;  
}  
  
public void withdraw (double amount) {  
    if (balance > amount &  
        balance > minBalance) {  
        balance -= amount;  
    } else {  
        System.out.println ("Withdrawal unsuccessful.  
        current balance : Rs " + balance);  
    }  
}  
  
else {  
    System.out.println ("insufficient funds.  
    withdrawal not allowed");  
}  
  
public void imposeServiceCharge () {  
    if (balance < minBalance) {  
        balance += servicecharge;  
    }  
}  
  
System.out.println ("service charge imposed.  
current balance : Rs " + balance);  
}  
  
class savings extends Account {  
    double interestRate;  
    public Savings (String customerName, long  
        accountNo) {  
        super (customerName, accountNo);  
    }
```

super parameter, accno, "sayings");
this - interestRate = 0.05;

3 public void depositInterest () {
double interest = balance * interestRate;
balance += interest;
system.out.println ("interest deposited.
current balance: Rs " + balance);

3 public void compoundInterest (double
initialAmount, int term) {
double compoundInterest = initialAmount *
Math.pow ((1 + interestRate), term);
balance += compoundInterest;

3 public class Bank {
public static void main (String [] args) {
Scanner scanner = new Scanner (System.in);
System.out.print ("choose account type ");
System.out.println ("1. current");
System.out.println ("2. saving");
System.out.print ("enter choice (1 or 2): ");
int choice = scanner.nextInt();
System.out.print ("enter customer name: ");
String customerName = scanner.nextLine();

System.out.print("Enter account no.: ");
long accno = scanner.nextInt();

if (choice == 1) {
 String curAccName = new Account().Customer
 .Name, accNo; double initialBalance = Rs 1000;
 System.out.print("Enter initial balance: Rs ");
 double initialBalance = scanner.nextDouble();
 curAcc.balance = initialBalance;

curAcc.balance = initialBalance;

System.out.print("Enter withdrawal amount: Rs ");
 double withdrawlAmount = scanner.nextDouble();
 curAcc.displayBalance();

} else if (choice == 2) {
 String savAccName, accNo; double
 initialBalance = Rs 1000;

System.out.print("Enter initial balance: Rs ");
 double initialBalance = scanner.nextDouble();
 SavAcc.savAccName = new SavAcc().Customer
 .Name, accNo;

System.out.print("Enter withdrawal amount: Rs ");
 double withdrawlAmount = scanner.nextDouble();
 SavAcc.withdrawlAmount = withdrawlAmount;

System.out.print("Enter withdrawal amount: Rs ");
 double withdrawlAmount = scanner.nextDouble();
 SavAcc.withdrawlAmount = withdrawlAmount;

System.out.println("Withdrawal successful");
 System.out.println("Current balance: Rs " + SavAcc.balance);

```
System.out.print("Enter interest rate: ");  
double interestRate = scanner.nextDouble();  
savAccount.setInterestRate(interestRate);  
  
savAccount.displayBalance();  
  
System.out.print("Enter term (in years) for  
compound interest calculation: ");  
int term = scanner.nextInt();  
savAccount.compoundInterest(term);  
  
savAccount.displayBalance();  
  
}  
else {  
    System.out.println("Invalid choice");  
}  
}  
}
```

INPUT OR:
Customer name & account number

choose account type : savings, and enter

1. current

2. savings

enter choice (1 or 2): 1
Enter customer name: Anjali

enter account number: 1001

enter initial balance: Rs. 1000

enter withdrawal amount: Rs. 800

withdrawal successful. Current Balance: Rs. 200.00

service charge imposed. Current Balance: Rs. 150.00

Account Number: 1001

Customer Name: Mrs. Anjali

Account Type: current

Balance: Rs. 150

choose account type:

1. current

2. savings

enter choice (1 or 2): 2
Enter customer name: Anjali

enter account number: 2001

enter initial balance: Rs. 5000

enter withdrawal amount: Rs. 1000

withdrawal successful. Current Balance: Rs. 4000

enter interest rate: 0.08

Account number: 2001

Customer Name: Anjali

Account type : savings

balance type : save 4000

Enter term (in years) for compound interest
calculation : 2

compound interest deposited . Current balance :
Rs 4820.0

Interest rate
sider

18
sider

300 option

Interest 300 option

Interest amount deposited and sider

sider 3

300 option

Interest 300 option

Interest all sider

all 300 sider 3

new price sider

new price sider

300 option

Interest all sider

Enter the number of customers

1

FOR CUSTOMER 1

Enter name

ANJALI

For savings:

Enter account number, balance, rate of interest, time

10333

165454

6

5

Deposit success. Balance is: 330908.0

Compound interest

New Balance: 442829.5494324609

For current:

Enter account number, balance, presence of check (Enter 1 if check present)

12555

1544

22325

Deposit success. Balance is: 3088.0

For savings account:

Enter withdrawal amount

111

Remaining Balance is: 442718.5494324609

For current account:

Enter withdrawal amount

1224

Withdrawal success. Remaining Balance: 1864.0

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