q.1

```
public class Cart {
    private String itemName;
    private int price;
    private int quantity;

public void setItemName (String itemName) {
    this.itemName = itemName;
}

public ~~getter~~ String getItemName () {
    return itemName;
}

public void setPrice (int price) {
    this.price = price;
}

public int ~~get~~ getPrice () {
    return price;
}

public static void main (String [] args) {
    Cart obj = new Cart ();
    obj.setItemName ("Duttes");
    obj.setPrice (50);
    System.out.println ("The details we have
set are!");
    System.out.println (obj.getItemName ());
    System.out.println (obj.getPrice ());
}
```

Q2

```
import java.util.Scanner;

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:" +accNo);

System.out.println ("CustomerName:" + customerName);
System.out.println ("Account Type:" + accountType());

System.out.println ("Balance:" +balance);
  }
}

class CurAcct extends Account {
   double minBalance;
    double serviceCharge;
    public CurAcct (String customerName,
long accNo) {
  super (customerName, accNo, "current");
this.minBalance = 500.0;
set minimum balance () {
```

```
}

set service charge ()
{
this.serviceCharge = 50.0;
}

public void withdraw (double amount)
{
if (balance - amount >=
minBalance) {
balance -= amount;
System.out.println ("withdrawal successful.
current balance: Rs." + balance);
}
else {
System.out.println ("insufficient funds.
withdrawal not allowed");
}

public void imposeServiceCharge () {
if (balance < minBalance) {
balance = balance - serviceCharge;
System.out.println ("service charge imposed.
current balance: Rs." + balance);
}
}

class SavAcct extends Account {
double interestRate;

public SavAcct (String customerName, long
acctNo) {
```

```
super (customerName, accNo, "saving");
    this.interestRate = 0.05;
}
public void depositInterest() {
    double interest = balance * interestRate;
    balance += interest;
System.out.println("interest deposited.
current balance: Rs" + balance);
}
public void compoundInterest (double
initialAmount, int term) {
double compoundInterest = initialAmount *
Math.pow(1 + interestRate), term) -
    initialAmount;
    balance += compoundInterest;
System.out.println("compound interest
deposited, current Balance: Rs" + balance);
}
}
public class Bank {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("choose account type");
System.out.println("1. current");
System.out.println("2. saving");
System.out.println("enter choice (1 or 2):");
int choice = scanner.nextInt();
System.out.print("enter customer name:");
String customerName = scanner.next();
```

OUTPUT Q2:

Choose account type:
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. 200.0
Service charge imposed. current Balance: Rs.150.0
Account Number: 1001
Customer Name: 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 : 4000
Enter term (in years) for compound interest
calculation : 2
compound interest deposited . current Balance :
Rs 4320.0