/*

* Design a class name ShowRoom with the following desription

* Instance variables/ Data members:

* String name - To store the name of the customer

* long mobno - To store the mobile number of the customer

* double cost - To store the cost of the items purchased

* double dis - To store the discount amount

* Member methods:

* ShowRoom() - default cuonstructor to initialize data members

* void input() - To input customer name, mobile number, cost

* void calculate - To calculate discount on the cost of purchased items, based on the following criteria:

* Cost: Less than or equal to 10000 Discount: 5%

* Cost: More than 10000 and less than or equal to 20000 Discount: 10%

* Cost: More than 20000 and less than or equal to 35000 Discount: 15%

* Cost: More than 35000 Discount: 20%

* void display - To display customer name, mobile number, amount to be paid after discount

* Write a main method to create an object of the class and call the above member methods

```
*
*/
import java.util.Scanner;
public class ShowRoom {
   String name;
   long mobno;
   double cost;
   double dis;
   double amount;
   void input(ShowRoom obj) {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter your name: ");
      obj.name = sc.nextLine();
      System.out.print("Enter your mobile number: ");
      obj.mobno = sc.nextLong();
      System.out.print("Enter the cost of items purchased: ");
      obj.cost = sc.nextDouble();
      sc.close();
   }
   void calculate(ShowRoom obj) {
      double discount;
```

```
if (obj.cost <= 10000) {
        discount = (5 * obj.cost) / 100;
        obj.amount = obj.cost - discount;
    } else if (obj.cost > 10000 && obj.cost <= 20000) {
        discount = (10 * obj.cost) / 100;
        obj.amount = obj.cost - discount;
    } else if (obj.cost > 20000 && obj.cost <= 35000) {
       discount = (15 * obj.cost) / 100;
        obj.amount = obj.cost - discount;
    } else {
        discount = (20 * obj.cost) / 100;
        obj.amount = obj.cost - discount;
    }
  }
  void display(ShowRoom obj) {
    System.out.println("-----------------------------------------------");
    System.out.println("Customer's name: " + obj.name);
    System.out.println("Customer's mobile number: " + obj.mobno);
```

```
  System.out.println("Amount to be paid after discount: " +
obj.amount);
      System.out.println("-----------------------------------------------");
   }

   public static void main(String[] args) {
      ShowRoom obj = new ShowRoom();
      obj.input(obj);
      obj.calculate(obj);
      obj.display(obj);
   }
```

Output:

The sum of the first series is 780

0, 7, 26, 63, 124, 215, 342, 511, 728, 999,

The sum of the third series is 1.928968253968254