Class Customer

java.lang.Object Customer

extends java.lang.Object

public class Customer

Defines a simple Customer class that holds some information regarding customers, this information includes: nickname and id number. When a Customer object is created the nickname and the id number can be retrievd by **getName()** and **getId()** methods. For example:

Customer cos = new Customer("blue_jet", 11135422);

cos.getName(); returns "blue_jet"

cos.getId(); returns 11135422

When a Customer object is created, the nickname and the id number can not be changed.

Two Customer objects can be compared by using the **equals()** methods, for example:

Customer cos1 = new Customer("blue_jet", 11135422);

Customer cos2 = new Customer("blue_jet", 222356478);

If either of nicknames or ids are equal, or both are equal then the result is true. The result of comparison is false only and only when both values in both objects are different. So, the result of:

cos1.equals(cos2) or cos2.equals(cos1)

is **true**. But, the result of:

cos2 = new Customer("aaaazzz", 222356478);

cos1.equals(cos2) or cos2.equals(cos1)

is **false**.

To print the Customer object, you can costumize the result by getting the nickname and id number separately and print it in your own way, or you can print the object directly. Here are some examples of printing the Customer object:

Customer costo1 = new Customer("Meijad", 22204563); System.out.println(costo1);

System.out.println("----");

System.out.printf("{name: %s, id: %d}%n", costo1.getName(), costo2.getId());

"[Meijad, 22204563]"

The results are as following:

"{name: Meijad, id: 22204563}"

showing they are different objects with different references in the memory, but the result of comparing values as below:

To create a deep (actual) copy of the Customer object the method clone() can be used. The general intent is that, for any Customer object c, the expression:

x.clone().equals(x) is **true**.

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Constructor Summary

Constructors

Constructor and Description

Customer(Customer co)

Copy Constructor, this constructor initilizes the object with the given Customer object's information. Customer(java.lang.String nickname, long id)

This constructor initilizes the object with the given nickname and id number.

All Methods Instance Methods Concrete Methods

Method Summary

All Methods Instance Methods	Concrete methods
Modifier and Type	Method and Description
Customer	clone() Creates and returns a deep copy of this Customer object.
boolean	equals(java.lang.Object obj) Compares this Customer object to the given Customer object.
long	getId() Returns a long type value which is the id number of this object.
java.lang.String	getName() Returns a String value which is the nickname of this object.
java.lang.String	toString() Returns this Customer object in the String fromat: "[nikname, id]"

finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

long id)

Methods inherited from class java.lang.Object

Constructor Detail

Customer

public Customer(java.lang.String nickname,

Parameters: nickname - a String type name.

This constructor initilizes the object with the given nickname and id number.

id - a long type number as id.

Customer

public Customer(Customer co) Copy Constructor, this constructor initilizes the object with the given Customer object's information.

co - a Customer object to initialize the object with.

getName

Parameters:

Method Detail

Returns a String value which is the nickname of this object.

public java.lang.String getName()

the nickname of this object.

Returns:

getld

Returns a long type value which is the id number of this object. Returns:

public long getId()

the id number of this object.

Returns this Customer object in the String fromat: "[nikname, id]"

toString

public java.lang.String toString()

toString in class java.lang.Object Returns:

Overrides:

equals

Parameters:

Compares this Customer object to the given Customer object.

A String value from the nickname and the id of this object.

If both names and ids are equal the result is true. The result is false when both nicknames and ids are different.

If either names or ids are equal the result is true.

public boolean equals(java.lang.Object obj)

Overrides: equals in class java.lang.Object

obj - Customer object Returns:

A boolean value, the result of comparison.

clone

public Customer clone()

x.clone() != x;but the result of comparing values as below:

x.clone().equals(x) is **true**.

Creates and returns a deep copy of this Customer object. The general intent is that, for any Customer x, the expression:

Overrides: clone in class java.lang.Object

Returns: The deep copy of the Customer object.