

Exercise 7

Task 1 – Initializing Object Instances

You have been provided with the Customer class. In this task, you create, compile, and execute a CustomerTest class. In the CustomerTest class, you create objects of the Customer class and set values to its member variables. Complete the following steps.

1. Create a new Java project called Exercise 7.
2. In the newly created project, add a new Java class Customer and add codes below.

```
public class Customer {  
  
    public int customerID = 0; // Default ID for the customer  
    public String name = "-name required-"; // default  
    public String emailAddress = "-email required-"; // default  
  
    // This method displays the values for an item  
    public void displayCustomerInfo() {  
  
        System.out.println("*****Customer Information*****");  
        System.out.println("Customer ID: " + customerID);  
        System.out.println("Name:" + name);  
        System.out.println("Email: " + emailAddress);  
        System.out.println("*****");  
  
    } // end of display method  
} // end of class
```

3. Examine the Customer class, its member variables and its method.
4. Create a new Java class CustomerTest.
5. Create the main method in the CustomerTest class.
6. In the main method, perform the following
 - a. Declare two instances of Customer class.
 - b. Initialize the two instances of the Customer class using the new operator.
 - c. Assign values to the member variables of the Customer instance. Repeat the same for the second Customer object but with different values. For example

cust2.cusomerID = 2;
 - d. Invoke the displayCustomerInfo method for each of the Customer objects.
7. Run the program and verify the output to be sure that each Customer object displays the distinct values you assigned.

Task 2 – Manipulating Object References

In this task, you assign the value of one object reference to another object reference. Complete the following steps.

1. Open CustomerTest class that you have created and executed in the previous task.
2. In the main method, go to the line where you invoke the displayCustomerInfo method for both Customer instances.
3. Assign one object reference to another object reference, before you call the displayCustomerInfo method for both instances. For example: cust1 = cust2. Assuming that cust1 and cust2 are the two instances of the Customer class.
4. Run the program and check the output of the displayCustomerInfo method for both objects.

Task 3 – Creating and Using String Objects

In this task, you write a class called PersonTwo that creates and initializes two String variables and displays their values. Follow these steps to create your class.

1. Create a new Java class called PersonTwo and declare two variables. Initialize both variables.
 - a. The first variable stores a quotation.
 - b. The second variable stores the name of the person who said the quotation.
2. Use a method called displayQuote to display the quotation and the name of the person to the screen.
3. Create a new test class called PersonTwoTest class with codes below.

```
public class PersonTwoTest {  
  
    public static void main (String args[]) {  
  
        PersonTwo myPersonTwo = new PersonTwo();  
        myPersonTwo.displayQuote();  
    }  
}
```

4. Execute your program using the PersonTwoTest class.

THE END.