Lab 1

Identifiers,Keywords, andTypes

# Exercise 1: Investigating Reference Assignment

## Task 1 – Creating the TestMyPoint Class

public class myTestPoint {

    public static void main(String[] args) {

        MyPoint start = new MyPoint();

        MyPoint end = new MyPoint();

        start.x = 10;

        start.y = 10;

        end.x = 20;

        end.y = 30;

        System.out.println("Start point is: " + start);

        System.out.println("End point is: " + end);

        MyPoint stray = new MyPoint();

        stray = end;

        System.out.println("Start point is: " + stray);

        System.out.println("End point is: " + end);

        stray.x = 47;

        stray.y = 50;

        System.out.println("Start point is: " + stray);

        System.out.println("End point is: " + end);

        System.out.println("End point is: " + start);

    }

}

## Task 2 – Compiling the TestMyPoint Class

Texto

Descripción generada automáticamente

## Task 3 – Running the TestMyPoint Program

Texto

Descripción generada automáticamente

# Exercise 2: Creating Customer Accounts

## Task 1 – Creating the Customer Class

package Exersice2.com.mybank.domain;

import com.mybank.domain.Account;

public class Customer {

    private String firstName;

    private String lastName;

    private Account account;

    public Customer(String f, String l) {

        firstName = f;

        lastName = l;

    }

    public String getFirstName() {

        return firstName;

    }

    public String getLastName() {

        return lastName;

    }

    public Account getAccount() {

        return account;

    }

    public void setAccount(Account account) {

        this.account = account;

    }

}

## Task 2 – Copying the TestBanking Class

package com.mybank.test;

import com.mybank.domain.\*;

/\*

 \* This class creates the program to test the banking classes.

 \* It creates a new Customer and Account (with an initial balance),

 \* and performs a series of transactions with the Account object.

 \*/

public class TestBanking {

  public static void main(String[] args) {

    Customer customer;

    Account  account;

    // Create an account that can has a 500.00 balance and type savings.

    System.out.println("Creating the customer Jane Smith.");

    customer = new Customer("Jane", "Smith");

    System.out.println("Creating her account with a 500.00 balance.");

    customer.setAccount(new Account(500.00));

    account = customer.getAccount();

    System.out.println("Withdraw 150.00");

    account.withdraw(150.00);

    System.out.println("Deposit 22.50");

    account.deposit(22.50);

    System.out.println("Withdraw 47.62");

    account.withdraw(47.62);

    // Print out the final account balance

    System.out.println("Customer [" + customer.getLastName()

           + ", " + customer.getFirstName()

           + "] has a balance of " + account.getBalance());

  }

}

## Task 3 – Compiling the TestBanking Class

Texto

Descripción generada automáticamente

## Task 4 – Running the TestBanking Program

Texto

Descripción generada automáticamente