COE891 Lab 6:

MoneyBagTest

MoneyTest

MoneyBagTest.java   Save

```
//package ;

import org.junit.After;
import org.junit.Before;
import org.junit.Test;

import junit.framework.TestCase;

public class MoneyBagTest extends TestCas
    private Money f12CHF;
    private Money f14CHF;
    private Money f7USD;
    private Money f21USD;

    private IMoney fMB1;
    private IMoney fMB2;

    public static void main(String args[]
        junit.textui.TestRunner.run(Money
    }
    @Before
    protected void setUp() {
        f12CHF = new Money(12, "CHF");
        f14CHF = new Money(14, "CHF");
        f7USD = new Money(7, "USD");
        f21USD = new Money(21, "USD");

        fMB1 = MoneyBag.create(f12CHF, f7
        fMB2 = MoneyBag.create(f14CHF, f2
    }
    @After
    protected void tearDown() throws Exce
        // call toString, guranteed to be
        // this is for testing, coverage
        fMB1.toString();
    }
    @Test
    public void testBagMultiply() {
        // {[12 CHF][7 USD]} *2 == {[24 C
        IMoney expected = MoneyBag.create
        assertEquals(expected, fMB1.multi
        assertEquals(fMB1, fMB1.multiply(
        assertTrue(fMB1.multiply(0).isZer
    }
    @Test
    public void testBagNegate() {
        // {[12 CHF][7 USD]} negate == {[
        IMoney expected = MoneyBag.create
        assertEquals(expected, fMB1.negat
    }
    @Test
```

hemalik - Lab6_MutationTesting/main/IMoney.java - Eclipse IDE

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Package Explorer   JUnit

- Lab6_MutationTesting
  - Referenced Libraries
  - JRE System Library [jre]
  - main
    - (default package)
      - IMoney.java
      - Money.java
      - MoneyBag.java
  - test
    - (default package)
      - MoneyBagTest.java
      - MoneyTest.java
  - JUnit 4
- COE891 Lab II_ Coverage-based Test

MoneyBagTest.java   Money.java   MoneyTest.java   IMoney.java

```
 1    //package ;
 2
 3  /**
 4    * The common interface for simple Monies and MoneyBags
 5    */
 6    public interface IMoney {
 7      /**
 8        * Adds a money to this money.
 9        */
10      public abstract IMoney add(IMoney m);
11
12      /**
13        * Adds a simple Money to this money. This is a helper method for
14        * implementing double dispatch
15        */
16      public abstract IMoney addMoney(Money m);
17
18
```

Problems   Javadoc   Declaration   Console   Coverage   PIT Mutations   PIT Summary

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eclipse

Pit Test Coverage Report

Project Summary

Number of Classes	Line Coverage		Mutation Coverage		Test Strength	
2	6%	6/103	2%	2/83	100%	2/2

Breakdown by Package

Name	Number of Classes	Line Coverage		Mutation Coverage		Test Strength	
default	2	6%	6/103	2%	2/83	100%	2/2

Report generated by PIT 1.6.8