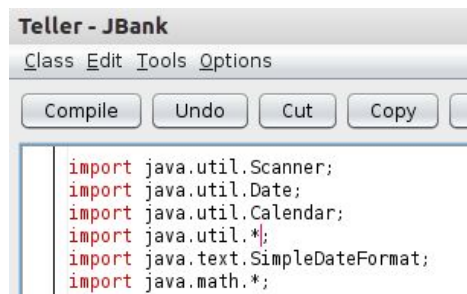


Modul 4 Tugas 3

Tanggal : 12/03/2016

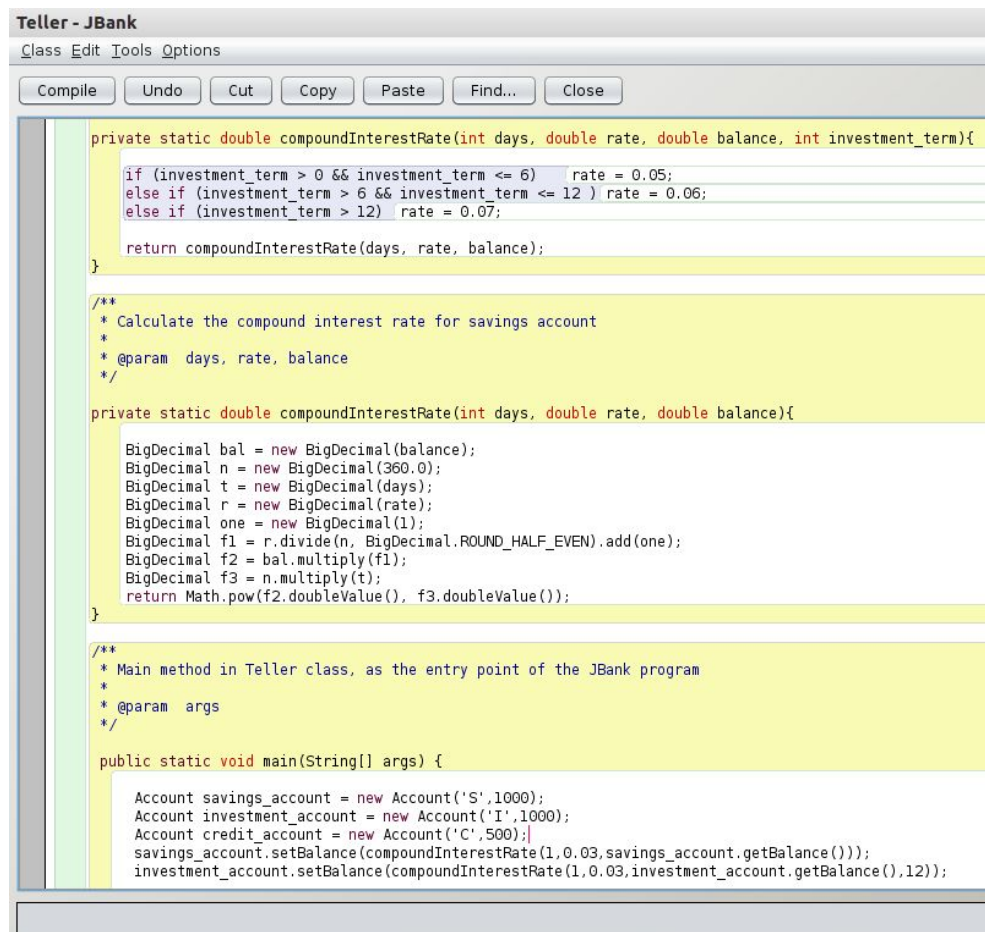
1.



```

import java.util.Scanner;
import java.util.Date;
import java.util.Calendar;
import java.util.*;
import java.text.SimpleDateFormat;
import java.math.*;
  
```

2. hingga 6



```

private static double compoundInterestRate(int days, double rate, double balance, int investment_term){
    if (investment_term > 0 && investment_term <= 6) rate = 0.05;
    else if (investment_term > 6 && investment_term <= 12 ) rate = 0.06;
    else if (investment_term > 12) rate = 0.07;
    return compoundInterestRate(days, rate, balance);
}

/**
 * Calculate the compound interest rate for savings account
 *
 * @param days, rate, balance
 */
private static double compoundInterestRate(int days, double rate, double balance){
    BigDecimal bal = new BigDecimal(balance);
    BigDecimal n = new BigDecimal(360.0);
    BigDecimal t = new BigDecimal(days);
    BigDecimal r = new BigDecimal(rate);
    BigDecimal one = new BigDecimal(1);
    BigDecimal f1 = r.divide(n, BigDecimal.ROUND_HALF_EVEN).add(one);
    BigDecimal f2 = bal.multiply(f1);
    BigDecimal f3 = n.multiply(t);
    return Math.pow(f2.doubleValue(), f3.doubleValue());
}

/**
 * Main method in Teller class, as the entry point of the JBank program
 *
 * @param args
 */
public static void main(String[] args) {
    Account savings_account = new Account('S',1000);
    Account investment_account = new Account('I',1000);
    Account credit_account = new Account('C',500);
    savings_account.setBalance(compoundInterestRate(1,0.03,savings_account.getBalance()));
    investment_account.setBalance(compoundInterestRate(1,0.03,investment_account.getBalance(),12));
  }
  
```