package lab\_6\_zad\_1;

import java.util.Scanner;

public class Task\_2 {

public static void main(String[] args) {

int amount, numberOf5000Roubles, numberOf2000Roubles, numberOf1000Roubles, numberOf500Roubles,

numberOf100Roubles, numberOf200Roubles, numberOf50Roubles;

Scanner input = new Scanner(System.in);

System.out.println("Rub: ");

amount =input.nextInt();

numberOf5000Roubles = amount / 5000;

amount %= 5000;

numberOf2000Roubles = amount / 2000;

amount %= 2000;

numberOf1000Roubles = amount / 1000;

amount %= 1000;

numberOf500Roubles = amount / 500;

amount %= 500;

numberOf200Roubles = amount / 200;

amount %= 200;

numberOf100Roubles = amount / 100;

amount %= 100;

numberOf50Roubles = amount / 50;

System.out.println("amount consists of: ");

System.out.println(" " + numberOf5000Roubles + "шт. 5-тыс. купюр");

System.out.println(" " + numberOf2000Roubles + "шт. 2-тыс. купюр");

System.out.println(" " + numberOf1000Roubles + "шт. 1-тыс. купюр");

System.out.println(" " + numberOf500Roubles + "шт. 500-руб. купюр");

System.out.println(" " + numberOf200Roubles + "шт. 200-руб. купюр");

System.out.println(" " + numberOf100Roubles + "шт. 100-руб. купюр");

System.out.println(" " + numberOf50Roubles + "шт. 50-руб. купюр");

}

}

package lab\_6\_zad\_2;

import java.util.Scanner;

public class Task\_3 {

public static void main(String[] args) {

final int months\_per\_year = 12;

double annual\_interest\_rate = 0, monthly\_interest\_rate, loan\_amount, monthly\_payment, total\_payment;

int number\_of\_years;

Scanner input = new Scanner(System.in);

System.out.println("ставка по кредиту (1-ипотека; 2-авто; 3-обрразование): ");

int stavka = input.nextInt();

switch (stavka) {

case 1:

annual\_interest\_rate = 4.5;

break;

case 2:

annual\_interest\_rate = 6.2;

break;

case 3:

annual\_interest\_rate = 7.5;

break;

}

System.out.println("период кредитования(года): ");

number\_of\_years = input.nextInt();

System.out.println("Сумма кредита (рубли): ");

loan\_amount = input.nextDouble();

monthly\_interest\_rate = annual\_interest\_rate / 12 / 100;

monthly\_payment = loan\_amount \* monthly\_interest\_rate

/ (1 - 1 / Math.pow(1 + monthly\_interest\_rate, number\_of\_years \* months\_per\_year));

total\_payment = monthly\_payment \* number\_of\_years \* months\_per\_year;

System.out.println("ежемесячный платеж: " + (int) (monthly\_payment \* 100) / 100.0 + "руб.");

System.out.println("стоимость кредита: " + (int) (total\_payment \* 100) / 100.0 + "руб.");

}

}