package homeworks;

/\*Nadefinuj dve promenne: Name, Age. Nasledne do nich prirad hodnotu. Nakonec obsah promennych vypis do konzole v jednom radku oddelene mezerou.\*/

import java.util.Scanner;

public class First {

public static void main(String []args){

try {

Scanner in = new Scanner(System.in);

System.out.print("Your name? ");

String name = in.nextLine();

System.out.print("Your age? ");

int age = in.nextInt();

System.out.format("Your personal data are: %s %d.%n", name, age);

} catch (Exception e) {

System.out.format("Sorry, something is wrong!");

}

}

}

package homeworks;

/\* Vytvor dve ciselne promenne a vypis je na obrazovku. Pote vymen hodnoty (bez pomoci treti promenne) a vysledek vypis na obrazovku.\*/

import java.util.Scanner;

public class Second {

public static void main(String []args){

try {

Scanner in = new Scanner(System.in);

System.out.print("First number: ");

int first = in.nextInt();

System.out.print("Second number: ");

int second = in.nextInt();

System.out.format("Your number are: first - %d, second - %d.%n", first, second);

first = first + second;

second = first - second;

first = first - second;

System.out.format("Your swapped number are: first - %d, second - %d.%n", first, second);

} catch (Exception e) {

System.out.format("Sorry, something is wrong!");

}

}

}

package homeworks;

/\* Napis program, ktery zdvojnasobi hodnotu od uzivatele ze vstupu. Tj. uzivatel z klavesnice zada text nebo cislo a na obrazovku se napise dvojnasobek puvodni hodnoty.\*/

import java.util.Scanner;

public class Third {

public static void main(String []args){

try {

Scanner in = new Scanner(System.in);

System.out.print("What do you want: Number(1) or Text(2)");

int choosen = in.nextInt();

if (choosen == 1) {

System.out.print("Your number: ");

int number = in.nextInt();

System.out.format("Twice the value %d.%n", number \* number);

} else {

System.out.print("Your text: ");

String text = in.nextLine();

System.out.format("Twice the value %s%s.%n", text, text);

}

} catch (Exception e) {

System.out.format("Sorry, something is wrong!");

}

}

}

package homeworks;

/\* Vytvor program, ktery nacte vstup od uzivatele a vypise, zda se jedna o cislo ci text ( (parseInt() ). Pokud se jedna o text, program vypise “Exception...” \*/

import java.util.Scanner;

public class Fifth {

public static void main(String []args){

try {

Scanner in = new Scanner(System.in);

System.out.print("Text or Number! ");

String choosen = in.nextLine();

int choosen2 = Integer.parseInt(choosen);

System.out.format("This is number.%n");

} catch (Exception e) {

System.out.format("This is text.%n");

}

}

}

package homeworks;

/\* Vytvor jednoduchou kalkulacku pro vypocet obvodu nebo obsahu ctverce ci kruhu. Hodnoty promennych budou random cisla (Math.random() ). Uzivatel bude mit moznost si zvolit co chce vypocitat. \*/

import java.util.Scanner;

public class Fourth {

public static void main(String []args){

try {

Scanner in = new Scanner(System.in);

System.out.print("What do you want: Circle(1) or Square(2)");

int choosen = in.nextInt();

System.out.print("What do you want: Circuit(3) or Content(4)");

int choosen2 = in.nextInt();

double number = Math.random();

if (choosen == 1) {

if (choosen2 == 3) {

double result = 2 \* number \* Math.PI;

System.out.format("Circuit of Circle %f.%n", result);

} else if (choosen2 == 4) {

double result2 = number \* number \* Math.PI;

System.out.format("Content of Circle %f.%n", result2);

}

} else if (choosen == 2) {

if (choosen2 == 3) {

double result3 = 4 \* number;

System.out.format("Circuit of Square %f.%n", result3);

} else if (choosen2 == 4) {

double result4 = number \* number;

System.out.format("Content of Square %f.%n", result4);

}

}

} catch (Exception e) {

System.out.format("Sorry, something is wrong!");

}

}

}package homeworks;

/\* Vytvor program, ktery vypise malou nasobilku (1 – 10) pomoci dvou for cyklu.\*/

public class Sixth {

public static void main(String[] args) {

for (int i = 1; i < 11; i++) {

for (int j = 1; j < 11; j++) {

System.out.print((i \* j) + " ");

}

System.out.format(".%n");

}

}

}

package homeworks;

import java.util.Scanner;

public class Calc {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in, "Windows-1250");

System.out.println("Vítejte v kalkulačce");

System.out.println("Zadejte první číslo:");

float a = Float.parseFloat(sc.nextLine());

System.out.print("Zadejte druhé číslo:");

float b = Float.parseFloat(sc.nextLine());

System.out.println("Zvolte si operaci:");

System.out.println("1 - sčítání");

System.out.println("2 - odčítání");

System.out.println("3 - násobení");

System.out.println("4 - dělení");

int volba = Integer.parseInt(sc.nextLine());

float vysledek = 0;

switch (volba) {

case 1:

vysledek = a + b; break;

case 2:

vysledek = a - b; break;

case 3:

vysledek = a \* b; break;

case 4:

vysledek = a / b; break;

}

if ((volba > 0) && (volba < 5)) {

System.out.println("Výsledek: " + vysledek);

} else {

System.out.println("Neplatná volba");

}

System.out.println();

System.out.println("Děkuji za použití kalkulačky.");

}

}