Bài 1:

package timnghiem;

import java.util.Scanner;

public class Timnghiem {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int a ,b ;

System.out.println("Nhập a");

a = sc.nextInt();

System.out.println("Nhập b");

b = sc.nextInt();

if (a==0) {

if(b==0) {

System.out.println("vô số nghiệm");

}

else {

System.out.println("vô nghiệm");

}

}

else {

float x = -b / a;

System.out.println("nghiệm là x = " + x);

}

}

}

Bài 2:

package bài2;

import java.util.Scanner;

public class Bài2 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

double a, b, c;

System.out.println("nhap a");

a = sc.nextDouble();

System.out.println("nhap b");

b = sc.nextDouble();

System.out.println("nhap c");

c = sc.nextDouble();

if (a==0) {

if (b==0) {

if(c==0) {

System.out.println("vô số nghiệm");

}

else {

System.out.println("vô nghiệm");

}

}

else {

double x = -c / b;

System.out.println("nghiệm là x = " + x);

}

}

else {

double delta = b\*b -(4\*a\*c);

if (delta < 0) {

System.out.println("vo nghiem");

}

else if (delta == 0) {

double nghiem1 = -b / (2\*a);

System.out.println("nghiem kep x = "+ nghiem1);

}

else {

double y = Math.sqrt(delta);

System.out.println("phuong trinh co 2 nghiem phan biet");

float nghiem2 = (float) ((-b + y) / (2\*a));

float nghiem3 = (float)((-b - y) / (2\*a));

System.out.println("nghiem x1 = "+ nghiem2 + "nghiem x2 "+ nghiem3);

}

}

}

}

Bài 3:

package bai3;

import java.util.Scanner;

public class Bai3 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int tienDien ;

System.out.println("nhap so dien nha ban su dung");

tienDien = sc.nextInt();

double tien50 , tien100;

if (tienDien < 50 ) {

tien50 = tienDien \* 1000;

System.out.println("so tien phai tra la " + tien50 );

}

else {

tien100 = 50 \* 1000 + (tienDien - 50) \* 1200;

System.out.println("so tien phai tra la " + tien100);

}

}

}

Bài 4:

package bài4;

import java.util.Scanner;

public class Bài4 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("+---------------------------+");

System.out.println("1. Giai phuong trinh bac nhat");

System.out.println("2. Giai phuong trinh bac 2");

System.out.println("3. Tinh tien dien");

System.out.println("4. Ket thuc");

System.out.println("+---------------------------+");

System.out.println("Chon chuc nang : ");

int number = sc.nextInt();

switch (number) {

case 1 -> {

int a, b;

System.out.println("Nhập a");

a = sc.nextInt();

System.out.println("Nhập b");

b = sc.nextInt();

if (a == 0) {

if (b == 0) {

System.out.println("vô số nghiệm");

} else {

System.out.println("vô nghiệm");

}

} else {

float x = -b / a;

System.out.println("nghiệm là x = " + x);

}

}

case 2 -> {

double a, b, c;

System.out.println("nhap a");

a = sc.nextDouble();

System.out.println("nhap b");

b = sc.nextDouble();

System.out.println("nhap c");

c = sc.nextDouble();

if (a == 0) {

if (b == 0) {

if (c == 0) {

System.out.println("vô số nghiệm");

} else {

System.out.println("vô nghiệm");

}

} else {

double x = -c / b;

System.out.println("nghiệm là x = " + x);

}

} else {

double delta = b \* b - (4 \* a \* c);

if (delta < 0) {

System.out.println("vo nghiem");

} else if (delta == 0) {

double nghiem1 = -b / (2 \* a);

System.out.println("nghiem kep x = " + nghiem1);

} else {

double y = Math.sqrt(delta);

System.out.println("phuong trinh co 2 nghiem phan biet");

float nghiem2 = (float) ((-b + y) / (2 \* a));

float nghiem3 = (float) ((-b - y) / (2 \* a));

System.out.println("nghiem x1 = " + nghiem2 + "nghiem x2 " + nghiem3);

}

}

}

case 3 -> {

int tienDien;

System.out.println("nhap so dien nha ban su dung");

tienDien = sc.nextInt();

double tien50, tien100;

if (tienDien < 50) {

tien50 = tienDien \* 1000;

System.out.println("so tien phai tra la " + tien50);

} else {

tien100 = 50 \* 1000 + (tienDien - 50) \* 1200;

System.out.println("so tien phai tra la " + tien100);

}

}

case 4 -> {

break;

}

default ->

throw new AssertionError();

}

}

}

Bài 5:

package bài5;

import java.util.Scanner;

public class Bài5 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("nhap so nguyen n");

int n = sc.nextInt();

double x = Math.sqrt(n) ;

if (x % 2 == 0) {

System.out.println("day la so chinh phuong");

}

else {

System.out.println("day khong phai la so chinh phuong");

}

}

}

Baì 6 :

package bai6;

import java.util.Scanner;

public class Bai6 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("nhap so diem cua ban");

int diem = sc.nextInt();

if (diem <= 5) {

System.out.println("Kem");

}

else if (diem > 5 && diem <= 7 ) {

System.out.println("Trung binh");

}

else if (diem > 7 && diem <= 8) {

System.out.println("Kha");

}

else {

System.out.println("Gioi");

}

}

}

Bài 7:

package bai7;

import java.util.Scanner;

public class Bai7 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int k = 1;

int n;

do {

System.out.println("nhap vao so n >0");

n = sc.nextInt();

}while (n <=0) ;

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

k \*= i;

}

System.out.println("giai thua cua " + n +"la " + k);

}

}

Bài 8:

package bai8;

import java.util.Arrays;

import java.util.Scanner;

public class Bai8 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n ;

System.out.println("nhap so phan tu co trong mang");

n = sc.nextInt();

int []mang1 = new int[n];

for(int i=0;i<n;i++) {

System.out.println("nhap phan tu thu" +i+":");

mang1[i] = sc.nextInt();

}

System.out.println("\n mang da nhap la");

for(int i=0;i<n;i++) {

System.out.println(mang1[i] +"");

}

Arrays.sort(mang1);

System.out.println("sap xep mang theo thu tu tang dan la");

for (int i =0; i<n ; i++){

System.out.println(mang1[i] + "\t");

}

}

}

Bài 9:

package bài9;

import java.util.Scanner;

public class Bài9 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n ;

System.out.println("nhap do rong cua ma tran");

n = sc.nextInt();

int maTran [][] = new int [n][n];

for (int i = 0 ; i < n ; i++ ) {

for (int j = 0 ; j < n ; j++) {

System.out.println(maTran[i][j] + "");

}

System.out.println("\t");

}

}

}