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K10\_ĐHCNTT3

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Câu 1 :

package javaapplication2;

import java.util.Scanner;

public class bai1 {

public static void main (String[] args) {

Scanner input = new Scanner(System.in);

float a, b;

System.out.print("Nhap vao so A: ");

a = input.nextFloat();

System.out.print("Nhap vao so B: ");

b = input.nextFloat();

if (a == 0)

if (b ==0)

System.out.println("Phuong trinh co vo so nghiem.");

else

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

else

System.out.println("Phuong trinh co nghiem la: x = " + -b/a);

}

}

Câu 2:

package javaapplication2;

import java.util.Scanner;

public class bai2 {

public static void main (String[] args) {

Scanner input = new Scanner(System.in);

float a, b, c;

System.out.print("Nhap vao so A: ");

a = input.nextFloat();

System.out.print("Nhap vao so B: ");

b = input.nextFloat();

System.out.print("Nhap vao so C: ");

c = input.nextFloat();

float D = b\*b - 4\*a\*c;

double x1 = (-b + Math.sqrt(D) / (2\*a));

double x2 = (-b - Math.sqrt(D) / (2\*a));

if(a == 0.0){

if(b == 0)

if(c == 0)

System.out.println("Phuong trnih co vo so nghiem.");

else

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

else

System.out.println("Phuong trinh co nghiem la: x =" + -c/b);

return;

}

if(D < 0)

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

if(D == 0)

System.out.println("Phuong trinh co nghiem kep la: x1 = x2 = ." + x1);

if(D > 0)

System.out.println("phuong trinh co 2 nghiem phan biet la: x1 = " + x1 + " va x2= " + x2);

}

}

Câu 3:

package javaapplication2;

import java.util.Scanner;

public class bai3 {

public static void main (String[] args) {

Scanner input = new Scanner(System.in);

float sodien;

System.out.print("Nhap vao so dien da tieu thu: ");

sodien = input.nextFloat();

if (sodien < 50)

System.out.println("So tien phai tra la: " + sodien\*1000);

else

System.out.println("so tien phai tra la: "+ (50\*1000 + (sodien - 50)\*1200));

}

}

Câu 4

package javaapplication2;

import java.util.Scanner;

public class bai4 {

private static Scanner input = new Scanner(System.in);

public static void main (String[] args){

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

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

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.print("ban chon chuong trinh: ");

String f = input.next();

switch(f){

case "1":

bai4.f1(args); break;

case "2":

bai4.f2(args); break;

case "3":

bai4.f3(args); break;

case "4":

System.out.println("Tam biet"); break;

}

}

public static void f1 (String[] args){

System.out.print("Nhap vao so A: ");

float a = input.nextFloat();

System.out.print("Nhap vao so B: ");

float b = input.nextFloat();

if (a == 0)

if (b ==0)

System.out.println("Phuong trinh co vo so nghiem.");

else

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

else

System.out.println("Phuong trinh co nghiem la: x = " + -b/a);

}

public static void f2 (String[] args){

System.out.print("Nhap vao so A: ");

float a = input.nextFloat();

System.out.print("Nhap vao so B: ");

float b = input.nextFloat();

System.out.print("Nhap vao so C: ");

float c = input.nextFloat();

float D = b\*b - 4\*a\*c;

double x1 = (-b + Math.sqrt(D) / (2\*a));

double x2 = (-b - Math.sqrt(D) / (2\*a));

if(a == 0.0){

if(b == 0)

if(c == 0)

System.out.println("Phuong trnih co vo so nghiem.");

else

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

else

System.out.println("Phuong trinh co nghiem la: x =" + -c/b);

return;

}

if(D < 0)

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

if(D == 0)

System.out.println("Phuong trinh co nghiem kep la: x1 = x2 = ." + x1);

if(D > 0)

System.out.println("phuong trinh co 2 nghiem phan biet la: x1 = " + x1 + " va x2= " + x2);

}

public static void f3 (String[] args){

System.out.print("Nhap vao so dien da tieu thu: ");

float sodien = input.nextFloat();

if (sodien < 50)

System.out.println("So tien phai tra la: " + sodien\*1000);

else

System.out.println("so tien phai tra la: "+ (50\*1000 + (sodien - 50)\*1200));

}

}

Bài tập về nhà

Câu 1 :

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\*/

package javaapplication2;

import java.util.Scanner;

/\*\*

\*

\* @author ADMIN

\*/

public class bai1btvn {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

int a;

System.out.println("Nhap mot so can kiem tra:");

a =input.nextInt();

float kq = (float) Math.sqrt(a);

if(kq==(int)kq)

{

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

}

else{

System.out.println(a + " khong la so chinh phuong");

}

}

}

Câu 2:

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package javaapplication2;

import java.util.Scanner;

/\*\*

\*

\* @author ADMIN

\*/

public class baitvn2 {

public static void main(String[]agrs){

Scanner input = new Scanner(System.in);

float dtb;

System.out.println("Nhap diem trung binh cua hoc sinh :");

dtb = input.nextFloat();

if (dtb>8.0){

System.out.println("Xep loai gioi");

} else

if (dtb>=7.0){

System.out.println("Xep loai kha");

} else

if (dtb>=5.0){

System.out.println("Xep loai trung binh");

} else {

System.out.println("Xep loai kem");

}

}

}

Câu 3:

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package javaapplication2;

import java.util.Scanner;

/\*\*

\*

\* @author ADMIN

\*/

public class btvn3 {

public static void main (String[]args){

Scanner input = new Scanner(System.in);

System.out.print("Nhap vao so nguyen: ");

int gt = 1;

int n = input.nextInt();

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

gt = gt \* i;

}

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

}

}

Câu 4:

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\*/

package javaapplication2;

import java.util.Scanner;

/\*\*

\*

\* @author ADMIN

\*/

public class bai4btvn {

public static void main(String[]agrs){

Scanner input = new Scanner(System.in);

//float[] mangSo;

int size, i, c; //kich thuoc

System.out.println("Nhap chieu dai mang:");

size = input.nextInt();

int[] arr = new int[size]; //khai bao mot mang so nguyen co ten arr va gan size vao mang

for ( i = 0; i < size; i++)

{

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

arr[i] =input.nextInt();

}

System.out.println("Phan tu x can xoa la: ");

int x = input.nextInt();

for (c = i = 0; i < size; i++) {

if (arr[i] != x) {

arr[c] = arr[i];

c++;

}

}

size = c; // lúc này số phần tử trong mảng sẽ bằng c

System.out.println("Thu tu tang dan : ");

for ( i = 0; i < size -1; i++) {

for (int j = i+1; j <= size - 1; j++) {

if (arr[j] < arr[i]) {

int temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

}

}

System.out.println("Mang sau khi sap xep: ");

for (i = 0; i < size; i++) {

System.out.print(arr[i] + "\t");

}

}

}

Câu 5:

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\*/

package javaapplication2;

import java.util.Scanner;

/\*\*

\*

\* @author ADMIN

\*/

public class btvn5 {

public static void Nhap(double a[][], int n) {

Scanner input = new Scanner(System.in);

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

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

System.out.print("a[" + i + "][" + j + "] = ");

a[i][j] = input.nextDouble();

}

}

}

public static void Xuat(double a[][], int n) {

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

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

System.out.print(a[i][j] + " ");

}

System.out.println("");

}

}

public static boolean KT(double a[][], int n) {

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

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

if (a[i][j] != a[j][i]) {

return false;

}

}

}

return true;

}

public static void main(String[] args) {

double a[][] = new double[100][100];

int n;

Scanner sc = new Scanner(System.in);

do {

System.out.println("Nhap so dinh n ");

n = sc.nextInt();

} while (n < 2 || n > 100);

Nhap(a, n);

if (KT(a, n) == true) {

System.out.println("");

System.out.println("Ma tran da đoi xung :");

Xuat(a, n);

} else {

System.out.println(" ma tran khong doi xung");

}

}

}