PHẠM NGỌC HÀ MINH/CNTT2

LAB3

class Main{

public static void main(String[]args){

Point2D Z = new Point2D();

Z.nhap();

Z.hienthi();

}

}

-------------------------------------------

import java.util.Scanner;

class Point2D{

private float x;

private float y;

public void nhap(){

Scanner input = new Scanner(System.in);

System.out.println("Nhap toa do x: ");

x = input.nextFloat();

System.out.println("Nhap toa do y: ");

y = input.nextFloat();

}

public void hienthi(){

System.out.println( "(" + x + "," + y + ")" );

}

public float giatriX(){

return x;

}

public float giatriY(){

return y;

}

}

class App{

public static void main(String[]args){

Triangle tamgiac = new Triangle();

tamgiac.nhap();

System.out.println("Chieu cao = " + tamgiac.getWidth());

System.out.println("Chieu dai canh day = " + tamgiac.getHeight());

System.out.println("Tam giac" + tamgiac.toString());

tamgiac.setWidth(20);

tamgiac.setHeight(10);

System.out.println("Tam giac"+tamgiac.toString());

}

}

import java.util.Scanner;

class Triangle{

private float width;

private float height;

public void nhap(){

Scanner input = new Scanner(System.in);

System.out.println("Nhap chieu cao: ");

width = input.nextFloat();

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

height = input.nextFloat();

}

public String toString(){

return"(" + width + "," + height + ")";

}

public float getWidth(){

return width;

}

public float getHeight(){

return height;

}

public void setWidth(float x){

width = x;

}

public void setHeight(float y){

height = y;

}

}

class Bee{

public static void main(String[]args){

Fraction phanso = new Fraction();

phanso.nhap();

phanso.hienthi();

phanso.reducer();

System.out.println("Fraction a" + phanso.toString());

phanso.nhap1();

phanso.hienthi1();

phanso.reducer1();

System.out.println("Fraction b" + phanso.toString1());

phanso.phepcong();

phanso.pheptru();

phanso.phepnhan();

phanso.phepchia();

}

}

import java.util.Scanner;

class Fraction{

private int numeratora;

private int denominatora;

private int numeratorb;

private int denominatorb;

public Fraction(){

numeratora = 0;

denominatora = 1;

numeratorb = 0;

denominatorb = 1;

}

public void nhap(){

Scanner input = new Scanner(System.in);

System.out.println("Nhap tu so a: ");

numeratora = input.nextInt();

do{

System.out.println("Nhap mau so a: ");

denominatora = input.nextInt();

}

while(denominatora == 0);

}

public void hienthi(){

if(numeratora == 0){

System.out.println("Phan so a = 0");

}

else if(denominatora == 1){

System.out.println("Phan so a = " + numeratora);

}

else{

System.out.println("Phan so a = " + numeratora + "/" + denominatora);

}

}

public void nhap1(){

Scanner input = new Scanner(System.in);

System.out.println("Nhap tu so b: ");

numeratorb = input.nextInt();

do{

System.out.println("Nhap mau so b: ");

denominatorb = input.nextInt();

}

while(denominatorb == 0);

}

public void hienthi1(){

if(numeratorb == 0){

System.out.println("Phan so b = 0");

}

else if(denominatorb == 1){

System.out.println("Phan so b = " + numeratorb);

}

else{

System.out.println("Phan so b = " + numeratorb + "/" + denominatorb);

}

}

public void phepcong(){

int y = denominatora\*denominatorb;

int x = (denominatorb\*numeratora)+(denominatora\*numeratorb);

System.out.println("Phep cong = " + x + "/" + y);

}

public void pheptru(){

int y = denominatora\*denominatorb;

int x = (denominatorb\*numeratora)-(denominatora\*numeratorb);

System.out.println("Phep tru = " + x + "/" + y);

}

public void phepnhan(){

int y = denominatora\*denominatorb;

int x = numeratora\*numeratorb;

System.out.println("Phep nhan = " + x + "/" + y);

}

public void phepchia(){

int y = denominatora\*numeratorb;

int x = denominatorb\*numeratora;

System.out.println("Phep chia = " + x + "/" +y);

}

public void reducer(){

int y = denominatora;

int x = numeratora;

int r = x % y;

while( r != 0){

x = y;

y = r;

r = x % y;

}

numeratora /= y;

denominatora /= y;

System.out.println("Phan so toi gian = " + numeratora + "/" + denominatora);

}

public void reducer1(){

int y = denominatorb;

int x = numeratorb;

int r = x % y;

while( r != 0){

x = y;

y = r;

r = x % y;

}

numeratorb /= y;

denominatorb /= y;

System.out.println("Phan so toi gian = " + numeratorb + "/" + denominatorb);

}

public String toString(){

return "(" + numeratora + "," + denominatora + ")";

}

public String toString1(){

return "(" + numeratorb + "," + denominatorb + ")";

}

}

import java.util.Scanner;

class Project{

String stID;

String stName;

String stClass;

public void student(){

Scanner input = new Scanner(System.in);

System.out.println("Nhap ID: ");

stID = input.nextLine();

System.out.println("Nhap ho ten: ");

stName = input.nextLine();

System.out.println("Nhap lop: ");

stClass = input.nextLine();

}

public String getID(){

return stID;

}

public String getName(){

return stName;

}

public String getclass(){

return stClass;

}

public String toString(){

return "(" + stID + "," + stName + "," + stClass + ")";

}

}

class Student{

public static void main(String[]args){

Project a = new Project();

a.student();

System.out.println("ID = " + a.getID());

System.out.println("Name is " + a.getName());

System.out.println("Class is " + a.getclass());

System.out.println("Student " + a.toString());

}

}

import java.util.Scanner;

class Book{

String boCode = "peo19202020";

String boTitle = "Peter Pan";

String boAuthor = "J.M.Barrie";

public void book(){

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

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

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

}

public String getboCode(){

return boCode;

}

public String getboTitle(){

return boTitle;

}

public String getboAuthor(){

return boAuthor;

}

public String toString(){

return "(" + boCode + "," + boTitle + "," + boAuthor + ")";

}

}

class Write{

public static void main(String[]args){

Book a = new Book();

a.book();

System.out.println("Ten Ma: " + a.getboCode());

System.out.println("Ten Sach: " + a.getboTitle());

System.out.println("Ten Tac Gia: " + a.getboAuthor());

System.out.println("Book" + a.toString());

}

}

class card{

long IbCode = 123456789;

String owner = "Chuoi";

int borrowCount = 98765;

public void danhsach(){

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

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

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

}

public long getIbCode(){

return IbCode;

}

public String getowner(){

return owner;

}

public int getborrowCount(){

return borrowCount;

}

public void checkout(){

int num = 2;

System.out.println("Check Out: " + num);

}

public String toString(){

return "(" + IbCode + "," + owner + "," + borrowCount + ")";

}

}

class library{

public static void main(String[]args){

card a = new card();

a.danhsach();

System.out.println("IbCode: " + a.getIbCode());

System.out.println("Owner: " + a.getowner());

System.out.println("BorrowCount: " + a.getborrowCount());

a.checkout();

System.out.println("LibraryCard" + a.toString());

}

}

Bài 2

Main java

package bai2;

public class Main {

public static void main(String[] args) {

Vecto vt1=new Vecto(3,4,5);

Vecto vt2=new Vecto(6,7,8);

System.out.println(vt1.nhanVoHuong(vt2));

}

}

Vecto.java

package bai2;

public class Vecto {

private double x;

private double y;

private double z;

public Vecto() {

this.x = 0;

this.y = 0;

this.z = 0;

}

public Vecto(double x, double y, double z) {

this.x = x;

this.y = y;

this.z = z;

}

public double getX() {

return this.x;

}

public void setX(double x) {

this.x = x;

}

public double getY() {

return this.y;

}

public void setY(double y) {

this.y = y;

}

public double getZ() {

return this.z;

}

public void setZ(double z) {

this.z = z;

}

public Vecto cong(Vecto a) {

double newx = this.x + a.x;

double newy = this.y + a.y;

double newz = this.z + a.z;

return new Vecto(newx, newy, newz);

}

public Vecto tru(Vecto a) {

double newx = this.x - a.x;

double newy = this.y - a.y;

double newz = this.z - a.z;

return new Vecto(newx, newy, newz);

}

public Vecto nhanHangSo(double a) {

double newx = this.x \* a;

double newy = this.y \* a;

double newz = this.z \* a;

return new Vecto(newx, newy, newz);

}

public double nhanVoHuong(Vecto a) {

return this.x \* a.x + this.y \* a.y + this.z \* a.z;

}

public String toString() {

return "{" +

" x='" + getX() + "'" +

", y='" + getY() + "'" +

", z='" + getZ() + "'" +

"}";

}

}