Lab4 Hình Học:

package lab4a;

public class HinhHoc {

public float PI = 3.14f;

public String ten;

public float chuVi, dienTich, theTich;

public HinhHoc(){}

public void xuatTen(){

System.out.println("Ten la :" + this.ten);

}

public void inChuVi(){

System.out.println("Chu vi la :"+this.chuVi);

}

public void inDienTich(){

System.out.println("Dien tich la :"+ this.dienTich);

}

public void inTheTich(){

System.out.println("The tich la :"+ this.theTich);

}

}

package lab4a;

public class HinhChuNhat extends HinhHoc{

public float dai, rong;

public HinhChuNhat(){}

public void nhapChieuDai(float dai){

this.dai = dai;

}

public void nhapChieuRong(float rong){

this.rong = rong;

}

public void tinhChuVi() {

this.chuVi = (this.dai+this.rong)\*2;

}

public void tinhDienTich() {

this.dienTich = this.dai\*this.rong;

}

}

package lab4a;

public class HinhTron extends HinhHoc{

public float banKinh;

public HinhTron(){}

public void nhapBanKinh(float banKinh){

this.banKinh = banKinh;

}

public void tinhChuVi(){

this.chuVi = this.banKinh\*2\*PI;

}

public void tinhDienTich(){

this.dienTich = this.banKinh\*this.banKinh\*PI;

}

}

package lab4a;

public class HinhTru extends HinhTron{

public float chieuCao;

public HinhTru(){}

public void nhapChieuCao(float chieuCao){

this.chieuCao = chieuCao;

}

public void tinhTheTich(){

this.theTich = this.chieuCao\*this.banKinh\*this.banKinh\*PI;

}

}

package lab4a;

public class HinhVuong extends HinhChuNhat{

public HinhVuong(){}

public void nhapCanh(float canh){

this.dai= this.rong= canh;

}

}

package lab4a;

import java.util.Scanner;

public class main {

public static void main(String[] args) {

Scanner nt = new Scanner(System.in);

HinhChuNhat hcn = new HinhChuNhat();

System.out.println("Nhap chieu dai hinh chu nhat");

hcn.nhapChieuDai(nt.nextFloat());

System.out.println("Nhap chieu rong hinh chu nhat");

hcn.nhapChieuRong(nt.nextFloat());

hcn.tinhChuVi();

hcn.inChuVi();

hcn.tinhDienTich();

hcn.inDienTich();

HinhTron ht = new HinhTron();

System.out.println("Nhap ban kinh hinh tron ");

ht.nhapBanKinh(nt.nextFloat());

hcn.tinhChuVi();

hcn.inChuVi();

hcn.tinhDienTich();

hcn.inDienTich();

HinhTru htr = new HinhTru();

System.out.println("Nhap ban kinh hinh tru");

htr.nhapBanKinh(nt.nextFloat());

System.out.println("Nhap chieu cao hinh tru");

htr.nhapChieuCao(nt.nextFloat());

htr.tinhTheTich();

htr.inTheTich();

HinhVuong hv = new HinhVuong();

System.out.println("Nhap canh cua hinh vuong");

hv.nhapChieuDai(nt.nextFloat());

}

}

Lab4b Cyrcle:

package lab4b;

public class Cyrcle {

private double radius;

private String color;

public Cyrcle(){}

public Cyrcle(double radius, String color) {

this.radius = radius;

this.color = color;

}

public double getRadius(){

return this.radius;

}

public void setRadius(double radius){

this.radius = radius;

}

public String getColor(){

return this.color;

}

public void setColor(String color){

this.color = color;

}

public double getArea(){

return this.radius\*this.radius\*3.14;

}

@Override

public String toString() {

return this.color +"+"+ this.radius;

}

}

package lab4b;

public class Cylinder extends Cyrcle{

private double height;

public Cylinder(){}

public Cylinder(double height, double radius, String color) {

super(radius, color);

this.height = height;

}

public double getHeight(){

return this.height;

}

public void setHeight(double height){

this.height = height;

}

public double getVolume(){

return this.getArea()\*height;

}

}

package lab4b;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner nt = new Scanner(System.in);

Cylinder cl1 = new Cylinder();

System.out.println("Nhap radius");

cl1.setRadius(nt.nextDouble());

System.out.println("Nhap height");

cl1.setHeight(nt.nextDouble());

cl1.getVolume();

cl1.getArea();

}

}