Bài 1:

import java.util.Scanner;

public class HinhHoc {

public float pi;

public String ten;

public float chuvi;

public float dientich;

public float thetich;

public HinhHoc() {

this.pi = 3.14f;

this.ten = " ";

this.chuvi = 0.0f;

this.dientich = 0.0f;

this.thetich = 0.0f;

}

public float getPi() {

return pi;

}

public String getTen() {

return ten;

}

public void setTen(String ten) {

this.ten = ten;

}

public float getChuvi() {

return chuvi;

}

public void setChuvi(float chuvi) {

this.chuvi = chuvi;

}

public float getDientich() {

return dientich;

}

public void setDientich(float dientich) {

this.dientich = dientich;

}

public float getThetich() {

return thetich;

}

public void setThetich(float thetich) {

this.thetich = thetich;

}

class HinhTron extends HinhHoc {

public float banKinh;

public HinhTron() {

}

public void setBanKinh(float banKinh) {

this.banKinh = banKinh;

}

public void nhapbanKinh() {

Scanner scn = new Scanner(System.in);

System.out.println("Nhap ban kinh: ");

banKinh = scn.nextFloat();

}

public void setChuvi(float chuvi) {

this.chuvi = chuvi;

}

public void setDientich(float dientich) {

this.dientich = dientich;

}

public void dientich() {

this.dientich = pi \* this.banKinh \* this.banKinh;

System.out.println("vay dien tich hinh tron la: " + this.dientich);

}

public void chuvi() {

this.chuvi = 2 \* this.banKinh \* pi;

System.out.println("chu vi hinh tron la: " + this.chuvi);

}

}

class HinhTru extends HinhTron {

public float chieuCao;

public HinhTru() {

}

public void setChieuCao(float chieuCao) {

this.chieuCao = chieuCao;

}

public void chieuCao() {

Scanner scn = new Scanner(System.in);

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

chieuCao = scn.nextFloat();

}

public void setThetich(float thetich) {

this.thetich = thetich;

}

public void thetich() {

this.thetich = pi \* this.banKinh \* this.banKinh \* this.chieuCao;

System.out.println("vay the tich hinh tru la: " + this.thetich);

}

}

class HinhChuNhat extends HinhHoc {

public float dai;

public float rong;

public HinhChuNhat() {

}

Scanner scn = new Scanner(System.in);

public void setDai(float dai) {

this.dai = dai;

}

public void dai() {

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

dai = scn.nextFloat();

}

public void setRong(float rong) {

this.rong = rong;

}

public void rong() {

System.out.println("Nhap chieu rong");

rong = scn.nextFloat();

}

public void setChuvi(float chuvi) {

this.chuvi = chuvi;

}

public void chuvi() {

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

System.out.println("chu vi hinh chu nhat la: " + this.chuvi);

}

public void setDientich(float dientich) {

this.dientich = dientich;

}

public void dientich() {

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

System.out.println("vay dien tich la: " + this.dientich);

}

}

class HinhVuong extends HinhChuNhat {

public float canh;

public HinhVuong() {

}

Scanner scn = new Scanner(System.in);

public void setCanh(float canh) {

this.canh = canh;

}

public void canh() {

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

canh = scn.nextFloat();

}

}

public static void main(String[] args) {

HinhHoc hinhhoc = new HinhHoc();

HinhTron ht = new HinhTron();

HinhTru htru = new HinhTru();

HinhChuNhat hcn = new HinhChuNhat();

HinhVuong hv = new HinhVuong();

}

}

Bài 2:

public class Circle {

public double radius;

public String color;

public Circle(double radius, String color) {

this.radius = radius;

this.color = color;

}

public double getRadius() {

return radius;

}

public void setRadius(double radius) {

this.radius = radius;

}

public String getColor() {

return color;

}

public void setColor(String color) {

this.color = color;

}

public double getArea() {

return this.radius \* this.radius \* Math.PI;

}

@Override

public String toString() {

return radius + " " + color;

}

class Cylinder extends Circle {

public double height;

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

super(radius, color);

this.height = height;

}

public double getHeight() {

return height;

}

public void setHeight(double height) {

this.height = height;

}

public double getvolume() {

return this.getArea() \* this.height;

}

}

}