# **Bài 1:**

## **//Class HoaQua**

public class HoaQua {

private String ten;

private String mau;

private String hinnhdang;

private String khoiluong;

public HoaQua(){

}

public HoaQua(String ten, String mau, String hinnhdang, String khoiluong) {

this.ten = ten;

this.mau = mau;

this.hinnhdang = hinnhdang;

this.khoiluong = khoiluong;

}

public String getTen() {

return ten;

}

public void setTen(String ten) {

this.ten = ten;

}

public String getMau() {

return mau;

}

public void setMau(String mau) {

this.mau = mau;

}

public String getHinnhdang() {

return hinnhdang;

}

public void setHinnhdang(String hinnhdang) {

this.hinnhdang = hinnhdang;

}

public String getKhoiluong() {

return khoiluong;

}

public void setKhoiluong(String khoiluong) {

this.khoiluong = khoiluong;

}

}

## **// Class QuaCam kế thừa từ Class HoaQua**

public class QuaCam extends HoaQua{

private double giaban;

private String nguongoc;

private int ngaynhap;

private int soluong;

public QuaCam(){

}

public QuaCam(double giaban, String nguongoc, int ngaynhap, int soluong) {

this.giaban = giaban;

this.nguongoc = nguongoc;

this.ngaynhap = ngaynhap;

this.soluong = soluong;

}

public QuaCam(double giaban, String nguongoc, int ngaynhap, int soluong, String ten, String mau, String hinnhdang, String khoiluong) {

super(ten, mau, hinnhdang, khoiluong);

this.giaban = giaban;

this.nguongoc = nguongoc;

this.ngaynhap = ngaynhap;

this.soluong = soluong;

}

public double getGiaban() {

return giaban;

}

public void setGiaban(double giaban) {

this.giaban = giaban;

}

public String getNguongoc() {

return nguongoc;

}

public void setNguongoc(String nguongoc) {

this.nguongoc = nguongoc;

}

public int getNgaynhap() {

return ngaynhap;

}

public void setNgaynhap(int ngaynhap) {

this.ngaynhap = ngaynhap;

}

public int getSoluong() {

return soluong;

}

public void setSoluong(int soluong) {

this.soluong = soluong;

}

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public void nhapThongtin(){

Scanner sc = new Scanner(System.in);

System.out.println("nhap ten: ");

setTen(sc.nextLine());

System.out.println("mau cua trai cay: ");

setMau(sc.nextLine());

System.out.println("hinh dang: ");

setHinnhdang(sc.nextLine());

System.out.println("khoi luong: ");

setKhoiluong(sc.nextLine());

System.out.println("nhap gia ban: ");

giaban = sc.nextDouble();

System.out.println("nguon goc: ");

nguongoc = sc.nextLine();

System.out.println("ngay nhap hang: ");

ngaynhap = sc.nextInt();

System.out.println("so luong trai cay");

soluong = sc.nextInt();

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

}

public void inThongtin(){

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

System.out.println("mau: "+this.getMau());

System.out.println("hinh dang: " +this.getKhoiluong());

System.out.println("gia ban: "+this.giaban);

System.out.println("nguon goc: "+this.nguongoc);

System.out.println("ngay nhap hang: "+this.ngaynhap);

System.out.println("so luong trai cay: "+this.soluong);

}

}

### **//Class CamCaoPhong kế thừa từ Class QuaCam**

public class CamCaoPhong extends QuaCam{

private String huongvi;

public CamCaoPhong(){

}

public CamCaoPhong(String huongvi) {

this.huongvi = huongvi;

}

public CamCaoPhong(String huongvi, double giaban, String nguongoc, int ngaynhap, int soluong, String ten, String mau, String hinnhdang, String khoiluong) {

super(giaban, nguongoc, ngaynhap, soluong, ten, mau, hinnhdang, khoiluong);

this.huongvi = huongvi;

}

public String getHuongvi() {

return huongvi;

}

public void setHuongvi(String huongvi) {

this.huongvi = huongvi;

}

public void huongvi(){

System.out.println("chua, thom");

}

public void nhapThongtin(){

Scanner sc = new Scanner(System.in);

System.out.print("nhap ten: ");

setTen(sc.nextLine());

System.out.print("mau cua trai cay: ");

setMau(sc.nextLine());

System.out.print("hinh dang: ");

setHinnhdang(sc.nextLine());

System.out.print("khoi luong: ");

setKhoiluong(sc.nextLine());

System.out.print("nhap gia ban: ");

setGiaban(sc.nextDouble());

setNguongoc(sc.nextLine());

System.out.print("nguon goc: ");

setNguongoc(sc.nextLine());

System.out.print("ngay nhap hang: ");

setNgaynhap(sc.nextInt());

System.out.print("so luong trai cay: ");

setSoluong(sc.nextInt());

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

}

@Override

public void inThongtin(){

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

System.out.println("mau: "+this.getMau());

System.out.println("hinh dang: " +this.getKhoiluong());

System.out.println("gia ban: "+this.getGiaban());

System.out.println("nguon goc: "+this.getNguongoc());

System.out.println("ngay nhap hang: "+this.getNgaynhap());

System.out.println("so luong trai cay: "+this.getSoluong());

}

}

### **//Class CamSanh kế thừa từ Class QuaCam**

public class CamSanh extends QuaCam{

private String huongvi;

public CamSanh(){

}

public CamSanh(String huongvi) {

this.huongvi = huongvi;

}

public CamSanh(String huongvi, double giaban, String nguongoc, int ngaynhap, int soluong, String ten, String mau, String hinnhdang, String khoiluong) {

super(giaban, nguongoc, ngaynhap, soluong, ten, mau, hinnhdang, khoiluong);

this.huongvi = huongvi;

}

public String getHuongvi() {

return huongvi;

}

public void setHuongvi(String huongvi) {

this.huongvi = huongvi;

}

public void huongvi(){

System.out.println("khong chua");

}

public void nhapThongtin(){

Scanner sc = new Scanner(System.in);

System.out.print("nhap ten: ");

setTen(sc.nextLine());

System.out.print("mau cua trai cay: ");

setMau(sc.nextLine());

System.out.print("hinh dang: ");

setHinnhdang(sc.nextLine());

System.out.print("khoi luong: ");

setKhoiluong(sc.nextLine());

System.out.print("nhap gia ban: ");

setGiaban(sc.nextDouble());

setNguongoc(sc.nextLine());

System.out.print("nguon goc: ");

setNguongoc(sc.nextLine());

System.out.print("ngay nhap hang: ");

setNgaynhap(sc.nextInt());

System.out.print("so luong trai cay: ");

setSoluong(sc.nextInt());

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

}

@Override

public void inThongtin(){

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

System.out.println("mau: "+this.getMau());

System.out.println("hinh dang: " +this.getKhoiluong());

System.out.println("gia ban: "+this.getGiaban());

System.out.println("nguon goc: "+this.getNguongoc());

System.out.println("ngay nhap hang: "+this.getNgaynhap());

System.out.println("so luong trai cay: "+this.getSoluong());

}

}

## **// Class QuaTao kế thừa từ Class HoaQua**

public class QuaTao extends HoaQua{

private double giaban;

private String nguongoc;

private int ngaynhap;

private int soluong;

public QuaTao(){

}

public QuaTao(double giaban, String nguongoc, int ngaynhap, int soluong) {

this.giaban = giaban;

this.nguongoc = nguongoc;

this.ngaynhap = ngaynhap;

this.soluong = soluong;

}

public QuaTao(double giaban, String nguongoc, int ngaynhap, int soluong, String ten, String mau, String hinnhdang, String khoiluong) {

super(ten, mau, hinnhdang, khoiluong);

this.giaban = giaban;

this.nguongoc = nguongoc;

this.ngaynhap = ngaynhap;

this.soluong = soluong;

}

public double getGiaban() {

return giaban;

}

public void setGiaban(double giaban) {

this.giaban = giaban;

}

public String getNguongoc() {

return nguongoc;

}

public void setNguongoc(String nguongoc) {

this.nguongoc = nguongoc;

}

public int getNgaynhap() {

return ngaynhap;

}

public void setNgaynhap(int ngaynhap) {

this.ngaynhap = ngaynhap;

}

public int getSoluong() {

return soluong;

}

public void setSoluong(int soluong) {

this.soluong = soluong;

}

public void nhapThongtin(){

Scanner sc = new Scanner(System.in);

System.out.print("nhap ten: ");

setTen(sc.nextLine());

System.out.print("mau cua trai cay: ");

setMau(sc.nextLine());

System.out.print("hinh dang: ");

setHinnhdang(sc.nextLine());

System.out.print("khoi luong: ");

setKhoiluong(sc.nextLine());

System.out.print("nhap gia ban: ");

giaban = sc.nextDouble();

System.out.print("nguon goc: ");

nguongoc = sc.nextLine();

System.out.print("ngay nhap hang: ");

ngaynhap = sc.nextInt();

System.out.print("so luong trai cay");

soluong = sc.nextInt();

}

public void inThongtin(){

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

System.out.println("mau: "+this.getMau());

System.out.println("hinh dang: " +this.getKhoiluong());

System.out.println("gia ban: "+this.giaban);

System.out.println("nguon goc: "+this.nguongoc);

System.out.println("ngay nhap hang: "+this.ngaynhap);

System.out.println("so luong trai cay: "+this.soluong);

}

}

## **// Hàm main**

public class main\_hoaqua {

public static void main(String[] args) {

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

System.out.println("1. Qua cam");

System.out.println("2. Qua tao");

System.out.println("3. Thoat menu");

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

System.out.println("Lua chon cua ban: ");

int menu;

Scanner sc = new Scanner(System.in);

menu = sc.nextInt();

switch(menu){

case 1:

System.out.println("-----------menu 1---------");

System.out.println("1. Cam Cao Phong");

System.out.println("2. Cam Sanh");

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

System.out.println("Lua chon cua ban: ");

int menu1;

menu1 = sc.nextInt();

switch(menu1)

{

case 1:

CamCaoPhong ccp = new CamCaoPhong();

ccp.nhapThongtin();

ccp.inThongtin();

break;

case 2:

CamSanh camsanh = new CamSanh();

camsanh.nhapThongtin();

camsanh.inThongtin();

break;

}

break;

case 2:

QuaTao quatao = new QuaTao();

quatao.nhapThongtin();

quatao.inThongtin();

break;

default:

System.out.println("Da thoat menu");

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

}

}

}

# **Bài 2:**

## **// Class Shape**

public class Shape {

public String color = "Red" ;

public boolean Filled = true ;

public Shape() {

}

public Shape(String color, boolean Filled){

this.color = color;

this.Filled = Filled;

}

public String getColor() {

return color;

}

public void setColor(String color) {

this.color = color;

}

public boolean isFilled() {

return Filled;

}

public void setFilled(boolean Filled) {

this.Filled = Filled;

}

public String toString(){

return this.color + this.Filled;

}

public void in(){

System.out.println("thong tin: " +this.toString());

}

}

### **//Class Rectangle kế thừa từ Class Shape**

public class Rectangle extends Shape{

public double width = 1.0;

public double length = 1.0;

public Rectangle() {

}

public Rectangle(double width,double length) {

this.width = width;

this.length = length;

}

public Rectangle(double width,double length, String color, boolean Filled) {

super(color, Filled);

this.width = width;

this.length = length;

}

public double getWidth() {

return width;

}

public void setWidth(double width) {

this.width = width;

}

public double getLength() {

return length;

}

public void setLength(double length) {

this.length = length;

}

public void nhap(){

Scanner sc = new Scanner(System.in);

System.out.print("nhap color: ");

color = sc.nextLine();

}

public String toString(){

return " mau: " + this.color + " Filled: " + this.Filled;

}

public void in(){

System.out.println("thong tin: " +this.toString());

}

public void tinhChuvi(){

float Chuvi = (float) (this.width + this.length)\*2;

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

}

public void tinhDientich(){

float Dientich = (float) (this.length \* this.width);

System.out.println("Dien tich hinh chu nhat la: "+Dientich);

}

}

#### **// Class Square kế thừa từ Class Rectangle**

public class Square extends Rectangle{

public double side;

public Square(){

}

public Square(double side) {

this.side = side;

}

public Square(double side, double width, double length) {

super(width, length);

this.side = side;

}

public Square(double side, double width, double length, String color, boolean Filled) {

super(width, length, color, Filled);

this.side = side;

}

public double getSide() {

return side;

}

public void setSide(double side) {

this.side = side;

}

public void nhap(){

Scanner sc = new Scanner(System.in);

System.out.print("nhap color: ");

color = sc.nextLine();

}

public String toString(){

return " mau: " + this.color + " Filled: " + this.Filled;

}

public void in(){

System.out.println("thong tin: " +this.toString());

}

public void tinhChuvi(){

float Chuvi = (float) (this.side + this.side);

System.out.println("Chu vi hinh vuong la: "+Chuvi);

}

public void tinhDientich(){

float Dientich = (float) (this.side \* this.side);

System.out.println("Dien tich hinh vuong la: "+Dientich);

}

}

### **// Class Circle kế thừa từ Class Shape**

public class Circle extends Shape{

public double radius = 1.0; //bankinh

final float PI=3.14f;

public Circle() {

}

public Circle(String color, boolean Filled) {

super(color, Filled);

}

public Circle(double radius ,String color, boolean Filled){

super(color, Filled);

}

public double getRadius() {

return radius;

}

public void setRadius(double radius) {

this.radius = radius;

}

public void nhap(){

Scanner sc = new Scanner(System.in);

System.out.print("nhap color: ");

color = sc.nextLine();

}

public String toString(){

return " mau: " + this.color + " ban kinh" + this.radius + " Filled" + this.Filled;

}

public void in(){

System.out.println("thong tin: " +this.toString());

}

public void tinhChuvi(){

float Chuvi = (float) (this.PI \* this.radius);

}

public void tinhDientich(){

float Dientich = (float) (this.PI \* this.radius \* this.radius);

}

}

## **//Hàm Main**

public class main\_shape {

public static void main(String[] args) {

System.out.println("1. Circle ");

System.out.println("2. Rectangle");

System.out.println("3. Square");

System.out.println("4. Thoat");

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

int menu;

System.out.print("Lua chon cua ban: ");

Scanner sc = new Scanner(System.in);

menu = sc.nextInt();

switch(menu){

case 1:

Circle c = new Circle();

c.nhap();

c.in();

break;

case 2:

Rectangle r = new Rectangle();

r.nhap();

r.in();

r.tinhChuvi();

r.tinhDientich();

break;

case 3:

Square s = new Square();

s.nhap();

s.in();

s.tinhChuvi();

s.tinhDientich();

break;

default:

System.out.println("Da thoat");

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

}

}

}