public abstract class DiaOc {

protected int id;

protected double length;

protected double width;

public DiaOc(int id, double length, double width) {

this.id = id;

this.length = length;

this.width = width;

}

public double getWidth() {

return width;

}

public abstract double calculatePrice();

public double getArea() {

return length \* width;

}

}

public interface PhiKinhDoanh {

double Price(double price);

}

// House.java

public class Nha extends DiaOc {

private int floors;

public Nha(int id, double length, double width, int floors) {

super(id, length, width);

this.floors = floors;

}

@Override

public double calculatePrice() {

return getArea() \* 10000 + floors \* 100000;

}

}

// Hotel.java

public class KhachSan extends DiaOc implements PhiKinhDoanh {

private int stars;

public KhachSan(int id, double length, double width, int stars) {

super(id, length, width);

this.stars = stars;

}

@Override

public double calculatePrice() {

return 100000 + stars \* 50000;

}

@Override

public double Price (double price){

return price \* 5000;

}

}

// Villa.java

public class BietThu extends DiaOc {

public BietThu(int id, double length, double width) {

super(id, length, width);

}

@Override

public double calculatePrice() {

return getArea() \* 400000;

}

public double Price (double price){

return price \* 1000;

}

}

// Land.java

public class Dat extends DiaOc {

public Dat(int id, double length, double width) {

super(id, length, width);

}

@Override

public double calculatePrice() {

return getArea() \* 10000;

}

}

public class Main {

public static void main (String[] args) {

Dat dat = new Dat(0, 15.0,20.0);

Nha nha = new Nha(1, 20.0, 30.0, 2);

KhachSan khachSan = new KhachSan(2, 10, 20, 5);

BietThu bietThu = new BietThu(3, 25.0, 35.0);

System.out.println("Gia dat: " + (long) dat.calculatePrice());

System.out.println("Gia nha: " + (long) nha.calculatePrice());

System.out.println("Gia khach san: " + (long) khachSan.calculatePrice());

System.out.println("Phi kinh doanh khach san: " + (long) khachSan.Price(khachSan.getWidth()));

long tong1 = (long) khachSan.calculatePrice() + (long) khachSan.Price(khachSan.getWidth());

System.out.println("Gia khach san + phi kinh doanh: " + tong1);

System.out.println("Gia biet thu: " + (long) bietThu.calculatePrice());

long tong2 = (long) bietThu.calculatePrice() + (long) bietThu.Price(bietThu.getWidth());

System.out.println("Phi kinh doanh biet thu: " + (long) bietThu.Price(bietThu.getWidth()));

System.out.println("Gia biet thu + phi kinh doanh: " + tong2);

}

}

