Bài 2

**public** **class** Hinh {

**public** **double** dientich(){

**return** 0;

}

}

**public** **class** Hinhtron **extends** Hinh {

**public** **float** r;

**public** **double** pi=3.14;

**public** Hinhtron( **float** r) {

**super**();

**this**.r=r;

}

**public** **float** getr() {

**return** r;

}

**public** **void** setr() {

**this**.r=r;

}

@Override

**public** **double** dientich() {

**return** pi\***this**.r;

}

**public** String toString() {

**return** **super**.toString()+"Hinhtron[r="+ r +"]";

}

}

**public** **class** Hinhchunhat **extends** Hinh {

**public** **float** cd;

**public** **float** cr;

**public** Hinhchunhat(**float** cd, **float** cr) {

**super**();

**this**.cr=cr;

**this**.cd=cd;

}

**public** **float** getcd() {

**return** cd;

}

**public** **float** getcr() {

**return** cr;

}

**public** **void** setcd() {

**this**.cd=cd;

}

**public** **void** setcr() {

**this**.cr=cr;

}

@Override

**public** **double** dientich() {

**return** **this**.cd\***this**.cr;

}

**public** String toSTring() {

**return** **super**.toString()+"Hinhchunhat[cr="+ cr +", cd="+ cd +"]";

}

}

**import** java.util.ArrayList;

**public** **class** Danhsachhinh **extends** Hinh{

**public** ArrayList<Hinh> danhsach;

**public** Danhsachhinh(ArrayList<Hinh> danhsach) {

**this**.danhsach=danhsach;

}

**public** Danhsachhinh() {

**this**.danhsach= **new** ArrayList<Hinh>();

}

**public** **void** Themhinh(Hinh hl) {

**this**.danhsach.add(hl);

}

**public** **void** inDanhsach() {

**for**(Hinh hinh: danhsach) {

System.***out***.println(hinh);

}

}

}

**import** java.util.Scanner;

**public** **class** main {

**public** **static** Hinhtron nhapHinhtron() {

Scanner input= **new** Scanner (System.***in***);

System.***out***.println(" nhap ban kinh");

**float** r= input.nextFloat();

**return** **new** Hinhtron(r);

}

**public** **static** Hinhchunhat nhapHinhchunhat() {

Scanner input= **new** Scanner (System.***in***);

System.***out***.println(" nhap chieu dai va chieu rong");

**float** cd= input.nextFloat();

**float** cr=input.nextFloat();

**return** **new** Hinhchunhat(cd, cr);

}

**public** **static** **void** main(String[] args) {

Hinhtron ht= *nhapHinhtron*();

Hinhchunhat hcn= *nhapHinhchunhat*();

System.***out***.println("hinh tron la: "+ht.toString()+"");

System.***out***.println("hinh chu nhat:"+ hcn.toString()+"");

Danhsachhinh dsh= **new** Danhsachhinh();

System.***out***.println(" cac hinh co trong bai la ");

dsh.Themhinh(ht);

dsh.Themhinh(hcn);

dsh.inDanhsach();

}

}