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Java

//create object

public class Main

{

int x=7;

public static void main(String[] args) {

Main a1=new Main();

Main a2=new Main();

System.out.println(a1.x);

System.out.println(a2.x);

}

}

class al{

void getdata(int a, int b){

int x=a;

int y=b;

if(x>y){

System.out.println(x);

}

else

System.out.println(y);

}

}

public class Main{

public static void main(String[] args) {

al a1=new al();

a1.getdata(8,9);

}

}

//electricity bill

import java.util.Scanner;

class Main

{

public static void main(String args[])

{

int units;

double billpay=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter unit:");

units=sc.nextInt();

System.out.println("Enter unit price:");

int price=sc.nextInt();

billpay=units\*price;

System.out.println("Bill to pay : " + billpay);

}

}

//Single Inheritance

class a{

int s=40;

}

class Main extends a{

int b=10;

public static void main(String args[]){

Main p=new Main();

System.out.println("first number is:"+p.s);

System.out.println("second number is:"+p.b);

}

}

//reverse the number

import java.util.Scanner;

class Main

{

public static void main(String args[])

{

int num=0;

int r=0;

System.out.println("Enter the number: ");

Scanner in = new Scanner(System.in);

num = in.nextInt();

while( num != 0 )

{

r = r \* 10;

r = r + num%10;

num = num/10;

}

System.out.println("Reverse of the number is: "+r);

}

}

//Polymorphism

class Polygon{

public void render(){

System.out.println("Rendering Polygon...");

}

}

class Square extends Polygon{

public void render(){

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

}

}

class Circle extends Polygon{

public void render(){

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

}

}

class Main{

public static void main(String[] args){

Square s1=new Square();

s1.render();

Circle c1=new Circle();

c1.render();

}

}

class Area

{

void areaSquare(int x)

{

int y=x\*x;

System.out.println("Area of the square is:"+y);

}

void areaRectangle(float x,float y)

{

int z=x\*y;

System.out.println("Area of the rectangle is:"+z);

}

void areaCircle(double x)

{

double k=3.14\*x\*x;

System.out.println("the area of the circle is: "+k);

}

}

class Main{

public static void main (String[] args)

{

Area ob=new Area();

ob.areaSquare(7);

ob.areaRectangle(4,8);

ob.areaCircle(2.8);

}

}

//multilevel inheritence

class Animal

{

void eat()

{

System.out.println("Animal is eating...");

}

}

class Dog extends Animal{

void bark(){

System.out.println("Dog is barking...");

}

}

class BabyDog extends Dog{

void weep(){

System.out.println("BabyDog is weeping");

}

}

class Main{

public static void main(String args[]){

D b=new D();

b.honk();

b.weep();

b.bark();

b.eat();

}

}

//hybrid inheritance

class Animal

{

void eat()

{

System.out.println("Animal is eating...");

}

}

class Dog extends Animal{

void bark(){

System.out.println("Dog is barking...");

}

}

class BabyDog extends Dog{

void weep(){

System.out.println("BabyDog is weeping");

}

}

class GoldenRetriever extends Dog{

void smell(){

System.out.println("GoldenRetriever has a strong smelling power");

}

}

class Main{

public static void main(String args[]){

BabyDog b=new BabyDog();

b.honk();

b.weep();

b.bark();

b.eat();

GoldenRetriever g=new GoldenRetriever();

g.smell();

g.bark();

g.eat();

}

}