9.29上机心得体会

1.初步体验了JAVA的编译环境，了解了package和class的关系：

一个project下可以有多个package,一个package下由可以有多个class,class在package范围内有效，同一package下的class之间可以直接用，不同package下要用class的话需要导入package，语法如下：import 包名.类名;需要注意的是只能用一些public方法和属性。

1. 了解了java的输入输出

输入: import java.until.Scanner;需要新建一个Scanner对象，然后利用这个对象来进行输入输出。

输出:import java.lang;但是一般情况下不用导包。

1. 数学计算的一些方法

import java.lang.Math;同上因为java.lang默认导入，所以不需要导包。

4.局部变量需要定义的时候需要赋初值,要不然编译不通过。

5.源码:

(1)

**package** zdsd;  
  
**import** java.util.Scanner;  
  
**public class** fcgcf {  
 **public static void** main(String[] args) {  
 Person p = **new** Person();  
 p.input();  
 p.getResult();  
 p.printAns();  
  
 }  
  
}  
  
**class** Person {  
 **public** String **name**;  
 **public double hours**,**hourly**, **fedral**, **state**;  
 **public double grosspay**,**dedralpay**,**statepay**,**totalpay**,**nextpay**;  
 **void** getResult(){  
 **grosspay** = **hours**\***hourly**;  
 **dedralpay** = **grosspay**\***fedral**;  
 **statepay** = **grosspay**\***state**;  
 **totalpay** = **dedralpay** + **statepay**;  
 **nextpay** = **grosspay** - **totalpay**;  
 **return** ;  
 }  
  
 **void** printAns(){  
 System.***out***.print(**"Employ Name: "**+ **name** + **"\n"**);  
 System.***out***.print( **"Hours Worked: "** + **hours** + **"\n"**);  
 System.***out***.print(**"Pay rate: $"** + **hourly** + **"\n"**);  
 System.***out***.print(**"Gross Pay: $"** + **grosspay** + **"\n"**);  
 System.***out***.println(**"Deduction"**);  
 System.***out***.println(**" edral Withholding(20.0%): $"** + **dedralpay**);  
 System.***out***.println(**" State Witholding (9.0%): $"** + **statepay**);  
 System.***out***.println(**" Total Deduction: $"** + **totalpay** + **"\n"**);  
 System.***out***.println(**"Net pay: $"** + **nextpay**);  
 **return** ;  
 }  
  
 **void** input() {  
 Scanner sc = **new** Scanner(System.***in***);  
 System.***out***.print(**"Enter employee's name:"**);  
 **name** = sc.nextLine();  
 System.***out***.print(**"Enter number of hours worked in aweek:"**);  
 **hours** = sc.nextDouble();  
 System.***out***.print(**"Enter hourly pay rate:"**);  
 **hourly** = sc.nextDouble();  
 System.***out***.print(**"Enter fedral tax withholding rate:"**);  
 **fedral** = sc.nextDouble();  
 System.***out***.print(**"Enter state tax withholding rate:"**);  
 **state** = sc.nextDouble();  
 }  
}  
(2)

**package** zdsd;  
  
**import** java.util.Scanner;  
**public class** Triangle {  
 **public double x1**,**y1**,**x2**,**y2**,**x3**,**y3**;  
 **public double l1**,**l2**,**l3**;  
 **public double s**;  
 **void** input() {  
 Scanner sc = **new** Scanner(System.***in***);  
 **x1** = sc.nextDouble();  
 **y1** = sc.nextDouble();  
 **x2** = sc.nextDouble();  
 **y2** = sc.nextDouble();  
 **x3** = sc.nextDouble();  
 **y3** = sc.nextDouble();  
 }  
  
 **void** getEdge(){  
 **l1** = Math.*sqrt*(Math.*pow*((**x1**-**x2**),2)+Math.*pow*((**y1**-**y2**),2));  
 **l2** = Math.*sqrt*(Math.*pow*((**x1**-**x3**),2)+Math.*pow*((**y1**-**y3**),2));  
 **l3** = Math.*sqrt*(Math.*pow*((**x3**-**x2**),2)+Math.*pow*((**y3**-**y2**),2));  
 }  
  
 **void** getArea(){  
 getEdge();  
 **double** p = (**l1**+**l2**+**l3**)/2;  
 **this**.**s** = Math.*sqrt*(p\*(p-**l1**)\*(p-**l2**)\*(p-**l3**));  
 *//System.out.println(this.s);*  
}  
  
  
 **public static void** main(String []args){  
 *//System.out.println("Hello world!");*  
Triangle t = **new** Triangle();  
 t.input();  
 t.getArea();  
 System.***out***.printf(**"%.1f"**,t.**s**);  
 *//System.out.println("The are of the triangle is " + t.s);*  
}  
}

(3)

**package** zdsd;  
  
**import** java.util.Scanner;  
  
**public class** equal {  
 **double a**,**b**,**c**;  
 **double q**;  
 **double res1**,**res2**;  
 **void** input(){  
 Scanner sc = **new** Scanner(System.***in***);  
 **a** = sc.nextDouble();  
 **b** = sc.nextDouble();  
 **c** = sc.nextDouble();  
 }  
  
 **int** getRootNum(){  
 **q** = **b**\***b**-4\***a**\***c**;  
 **if**(**q** == 0) **return** 0;  
 **else if**(**q** < 0) **return** -1;  
 **else return** 1;  
 }  
  
 **void** getResult(){  
 getRootNum();  
 **if**(**q** == 0){  
 **res1** = (-**b**+Math.*sqrt*(**q**))/(2\***a**);  
 }**else if**(**q** < 0){  
 **return** ;  
 }**else if**(**q** > 0) {  
 **res1** = (-**b**+Math.*sqrt*(**q**))/(2\***a**);  
 **res2** = (-**b**-Math.*sqrt*(**q**))/(2\***a**);  
 }  
 }  
  
 **void** printAns(){  
 **if**(**q** == 0) System.***out***.println(**"The root is "** + **res1**);  
 **else if**(**q** < 0) System.***out***.println(**"THe equartion has no real roots"**);  
 **else** System.***out***.println(**"THe root are "**+ **res1** + **"and "** + **res2**);  
 }  
  
 **public static void** main(String []args){  
 *//System.out.println("Hello java!");*  
Circle c = **new** Circle();  
 equal e = **new** equal();  
 e.input();  
 e.getResult();  
 e.printAns();  
 }  
}

(4)

**package** zdsd;  
  
**import** java.util.Scanner;  
**public class** Circle {  
 **double x1**,**y1**,**r1**;  
 **double x2**,**y2**,**r2**;  
 **double d**;  
 **double flag**;  
 **public void** input(){  
 Scanner sc = **new** Scanner(System.***in***);  
 **x1** = sc.nextDouble();  
 **y1** = sc.nextDouble();  
 **r1** = sc.nextDouble();  
 **x2** = sc.nextDouble();  
 **y2** = sc.nextDouble();  
 **r2** = sc.nextDouble();  
 }  
  
 **void** judgePos(){  
 **d** = Math.*sqrt*(Math.*pow*((**x1**-**x2**),2)+Math.*pow*((**y1**-**y2**),2));  
 **if**(**d** <= Math.*abs*(**r1**-**r2**) ) **flag** = 1;  
 **else flag** = 2;  
 }  
  
 **public void** printAns(){  
 judgePos();  
 **if**(**flag** == 1){  
 System.***out***.println(**"circle2 is inside circle1"**);  
 }**else if**(**flag** == 2){  
 System.***out***.println(**"Circle2 is overlaps with Circle1"**);  
 }  
 }  
  
 **public static void** main(String []args){  
 *//System.out.println("Hello Circle");*  
Circle c = **new** Circle();  
 c.input();  
 c.printAns();  
 }  
  
  
  
}