


第三章第3次课作业

[返回](#) 姓名: 李全欣 班级: 计算机2018级4-7 成绩: 100分

一.单选题 (共2题,40.0分)

1 下列程序运行的结果是()。 class Book{ int width; int length; } public class A{ static void f(Book p){ p.width=20; p.length=40; } public static void main(String args[]){ Book b=new Book(); b.width=10; b.length=20; f(b); System.out.print(" "+b.width); System.out.print(" "+b.length); } }第三章第2次课作业

- A、 20 40
B、 10 40
C、 10 20
D、 以上都不对

正确答案: A 我的答案: A

得分: 20.0分

2 以下代码的输出结果为()。 public class Pass{ static int j=20; public static void main(String args[]){ int i=10; Pass p = new Pass(); p.amethod(i); System.out.println(i+" and "+j); } public void amethod(int x){ x=x*2; j=j*2; } }

- A、 错误: 方法参数与变量不匹配
B、 20 and 40
C、 10 and 40
D、 10 and 20

正确答案: C 我的答案: C

得分: 20.0分

二.选择题 (共3题,60.0分)

1 定义一个表示学生的student类,包括的域有学号、姓名、性别、年龄,包括的方法有获得学号、姓名、性别、年龄及修改年龄。编写Java程序创建student类的对象及测试其方法的功能。

正确答案:

```
class student{ private String id; private String name; private String sex; private int age;public String getId() {return id; }
public String getName() { return name; } public String getSex() { return sex; } public int getAge() { return age; } void setAge(int age) { this.age = a
ge; } } public class TestStudent { public static void main(String args[]) { student stu = new student("0401398", "杨小明", "男",20);
System.out.println("student info: " + "\n学号:" +stu.getId()+ "\n姓名" + stu.getName()+ "\n性别:" +stu.getSex()+ "\n年
龄:" +stu.getAge()); stu.setAge(19); System.out.println("修改后的年龄为:" +stu.getAge()); } }
```

我的答案:

```

1 package Lqx;
2 import java.util.Scanner;
3 public class Student {
4     String number;
5     String name;
6     String sex;
7     private int age;
8
9     public Student(String x,String n,String b,int a) {
10
11         number=x;
12         name=n;
13         sex=b;
14         age=a;
15     }
16     public String getNumber()
17     {
18         return number;
19     }
20     public String getName()
21     {
22         return name;
23     }
24     public String getSex()
25     {
26         return sex;
27     }
28     public int getAge()
29     {
30         return age;
31     }
32 }
33 public void setAge(int sage)
34 {
35     age=sage;
36 }
37 public void show(){
38     System.out.println("number:"+getNumber()+" name:"+getName()+" sex:"+getSex()+" age:"+getAge());
39 }
40 }
41
42
43

```

```

1 package Lqx;
2 import java.util.Scanner;
3
4 public class Textstudent{
5     public static void main(String[] args) {
6         Scanner s1=new Scanner(System.in);
7         Student s=new Student("2018214393","lqx","男",20);
8         s.show(); //显示所有信息
9         System.out.println("请输入要修改的年龄：");
10        int i=s1.nextInt();
11        s.setAge(i); //修改年龄
12        System.out.println("修改年龄后为：");
13        s.show(); //显示修改年龄后的所有信息
14    }
15 }

```

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```

<terminated> Textstudent [Java Application] C:\Program Files\Java\jdk
number:2018214393 name:lqx sex:男 age:20
请输入要修改的年龄：
21
修改年龄后为：
number:2018214393 name:lqx sex:男 age:21

```

正确答案:

```
public class Calculate{
    public static double calculateRectangleArea( double height,double width){
        return height * width
    }
    public static double calculateCubeVol(double x, double y, double z){
        return x * y * z;
    }
    public static double calculateSphereVol(double r){
        return (4/3) * 3.14 * r * r * r;
    }
}
```

我的答案:

```
1 package Lqx;
2 public class GeometryTool {
3
4
5     public static double RectangleArea(double w, double h){
6         return w * h;
7     }
8     public static double cubeCubage(double r){
9         return r*r*r;
10    }
11    public static double sphereCubage(double r){
12        return 4/3*r*r*r*3.14;
13    }
14    public static void main(String[] args) {
15        System.out.println("面积 "+GeometryTool.RectangleArea(2, 4)+"立方体体积 "+GeometryTool.cubeCubage(5));
16        System.out.println("球体体积 "+GeometryTool.sphereCubage(5));
17    }
18 }
19
```

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<terminated> GeometryTool [Java Application] C:\Program Files\Java\jdk-11.0.6\bin\j
面积 8.0立方体体积 125.0
球体体积 392.5

3 定义一个Company类,成员变量有公司名称、雇员列表、公司每年的总收入。该类的构造方法可能有如下形式:

public Company(String name) {} 也可以有更多其它形式的构造方法。或许还应该有以下方法:

public void setName(String name){ } public String getName() { } 必须提供一个公共的dump方法来打印有

关Company的信息,如公司名称、雇员和公司总收入。最后为Company类编写一个测试客户程序。

正确答案:

```
class Company{
    public String name; //公司名称
    public String employee[]; //雇员列表
    private int number; //雇员人数
    public double grossIncome; //总收入
    Company(String n){
        name = n;
        employee = new String[100]; //假设雇员人数不超过100人
    }
    public void setName(String n){
        name = n;
    }
    public String getName() {
        return name;
    }
    public void setGrossIncome(double income){
        grossIncome = income;
    }
    public String getGrossIncome() {
        return grossIncome;
    }
    public addEmployee(String n){
        employee[number] = n;
        number++;
    }
    public removeEmployee(String n){
        int i;
        for(i = 0; i < number; i++){ //查找待删除雇员所在位置
            if(employee[i].compareTo(n) == 0) break;
        }
        if(i < number){
            employee[i] = null; //删除该雇员信息
            for( i < number i++){ //被删除雇员后面
                的雇员向前移动一个位置
                employee[i] = employee[i+1];
            }
            number--; //雇员总数减1
        }
    }
    public void dump(){
        System.out.println("公司名  
称:" + name + "总收入:" + grossIncome);
        System.out.println("雇员列表:");
        for(int i=0; i < number; i++){
            System.out.println(employee[i]);
        }
    }
}

public class Test{
    public static void main(String args[]) {
        Company com = new Company("Sun Microsystem");
        com.addEmployee("张三");
        com.addEmployee("李四");
        com.setGrossIncome(123456789);
        com.dump();
    }
}
```

我的答案:

```
1 package Lqx;
2
3 public class Company {
4
5     private String companyname;
6     private String employeeenane;
7     private int totalincome;
8     public void setCompanyname(String a){
9         companyname=a;
10    }
11    public String getCompanyname() {
12        return companyname;
13    }
14    public void setEmployeeenane(String b){
15        employeeenane=b;
16    }
17    public String getEmployeeenane() {
18        return employeeenane;
19    }
20    public void setTotalincome(int c){
21        totalincome=c;
22    }
23    public int getTotalincome() {
24        return totalincome;
25    }
26    public void dump() {
27        System.out.println("companyname "+getCompanyname()+" employeeenane "+getEmployeeenane()+" totalincome "+getTotalincome());
28    }
29 }
30
```

```
1 package Lqx;
2
3 public class Textcompany {
4     public static void main(String args[]) {
5         Company s=new Company();
6         s.setCompanyname("百货");
7         s.setEmployeeenane("张三 "+"李四 "+"王五 "+"刘六 ");
8         s.setTotalincome(3000000);
9         s.dump();
10    }
11 }
12
```

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<terminated> Textcompany [Java Application] C:\Program Files\Java\jdk-11.0.6\bin\javaw.exe (20: companyname 百货 employeeenane 张三 李四 王五 刘六 totalincome 3000000)