Java06

Task1

这里有四个类

- Dish类

```
package kfc;

public class Dish{

	private String name;
	private double price;

	public void showProfile() {
		//这里父类不做事情 子类对这个函数进行了重写
	}

	public void showPirce() {
		System.out.println(name+":"+price+"元");
	//该方法会继承给子类 子类在使用时会自动调用
	}

	public Dish(String name,double price) {
		this.name = name;
		this.price = price;

	}

}
```

- Dish_1类

```
package kfc;

public class Dish_1 extends Dish {

	public Dish_1(String name,double price) {
		super(name,price);
	}

	@Override
	public void showProfile() {
		System.out.println("汉堡:好吃不贵,速速来品尝");
	}

}
```

- Dish_2类

```
package kfc;

public class Dish_2 extends Dish {

	public Dish_2(String name,double price) {
		super(name,price);
	}

	@Override
	public void showProfile() {
		System.out.println("可乐:快乐肥宅水");
	}

}
```

- Service类(主程序)

```
package kfc;

public class Service{

        Dish_1 hamburg = new Dish_1("汉堡",15);
        Dish_2 coke = new Dish_2("可乐",5);

        public static void main(String[] args) {
                Service sv = new Service();
                sv.hamburg.showProfile();
                sv.hamburg.showPirce();
                sv.coke.showProfile();
                sv.coke.showPirce();
        }

}
```

这样就可以正常输出菜品介绍和价格了

Task2

我这里依旧把Service当作主程序 命名System和系统库冲突的

- Dish类

```java
package kfc;

public class Dish {

	private String name;
	private double price;

	public void showProfile() {
		//这里父类不做事情 子类对这个函数进行了重写
	}

	public void showPirce() {
		System.out.println(name+":"+price+"元");
	}

	public Dish(String name,double price) {
		this.name = name;
		this.price = price;
	}

}
```

- Dish_1类

```
package kfc;

import java.util.Random;

public class Dish_1 extends Dish implements Order {

	public Dish_1(String name,double price) {
		super(name,price);
	}

	@Override
	public void showProfile() {
		System.out.println("汉堡:好吃不贵,速速来品尝");
	}

	public void cook() {
		System.out.println("牛肉 + 番茄 + 芝士 + 面包 == 汉堡");
	}

	public boolean check() {
		Random random = new Random();
		Boolean isFull = random.nextBoolean();
		return isFull;
	}

}
```

- Dish_2类

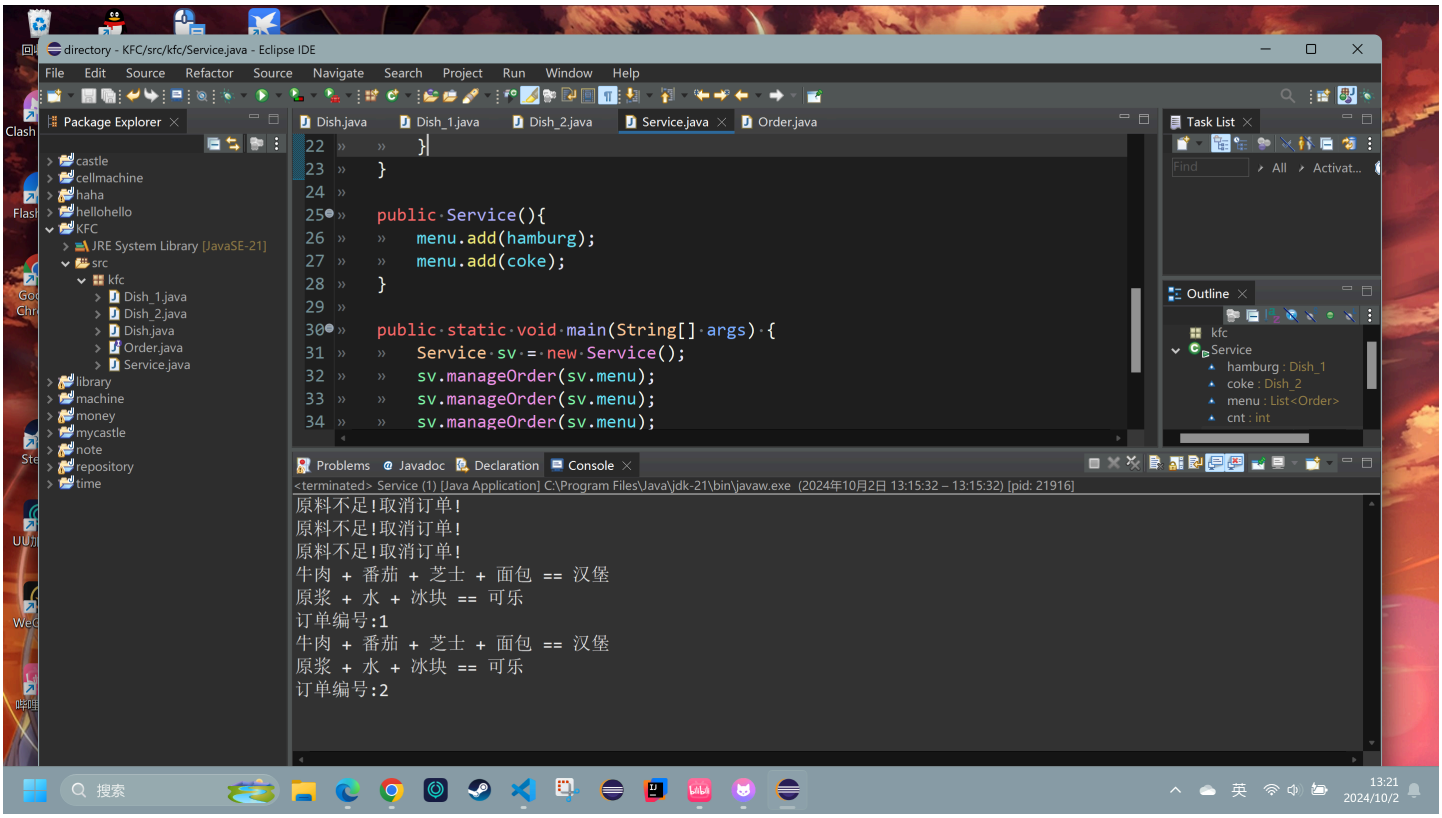
```
package kfc;

import java.util.Random;

public class Dish_2 extends Dish implements Order {

	public Dish_2(String name,double price) {
		super(name,price);
	}

	@Override
	public void showProfile() {
		System.out.println("可乐:快乐肥宅水");
	}

	public void cook() {
		System.out.println("原浆 + 水 + 冰块 == 可乐");
	}

	public boolean check() {
		Random random = new Random();
		Boolean isFull = random.nextBoolean();
		return isFull;
	}
}
```

- Order接口

```
package kfc;

public interface Order {
	public void cook();
	public boolean check();
}
```

- Service类

```java
package kfc;

import java.util.List;
import java.util.ArrayList;

public class Service{
        //我这个Service就相当于题目中的System了 起名System会和系统库冲突的
        Dish_1 hamburg = new Dish_1("汉堡",15);
        Dish_2 coke = new Dish_2("可乐",5);
        List<Order> menu = new ArrayList<Order>();
        int cnt = 1;

        public void manageOrder(List<Order> dishes) {
                if(hamburg.check() && coke.check()) {
                        for(Order i : dishes) {
                                i.cook();
                        }
                        System.out.println("订单编号:"+cnt);
                        cnt++;
                }else {
                        System.out.println("原料不足!取消订单!");
                }
        }

        public Service(){
                menu.add(hamburg);
                menu.add(coke);
        }

        public static void main(String[] args) {
                Service sv = new Service();
                sv.manageOrder(sv.menu);
                sv.manageOrder(sv.menu);
                sv.manageOrder(sv.menu);
                sv.manageOrder(sv.menu);
                sv.manageOrder(sv.menu);
                //多运行几个测试一下 运行结果如下
        }

}
```



Task3

新建了三个类 在Service类做了修改 其他类没变

- Customer类

```
package kfc;

public class Customer {
        public Customer() {

        }
        public void serve() {

        }
}
```

- TableCustomer类

```
package kfc;

public class TableCustomer extends Customer {
	private int tableId;

	public TableCustomer(int tableId) {
		this.tableId = tableId;
	}

	public void serve() {
		System.out.println("您的座位是"+tableId+"号,正在为您准备订单");
	}

}
```

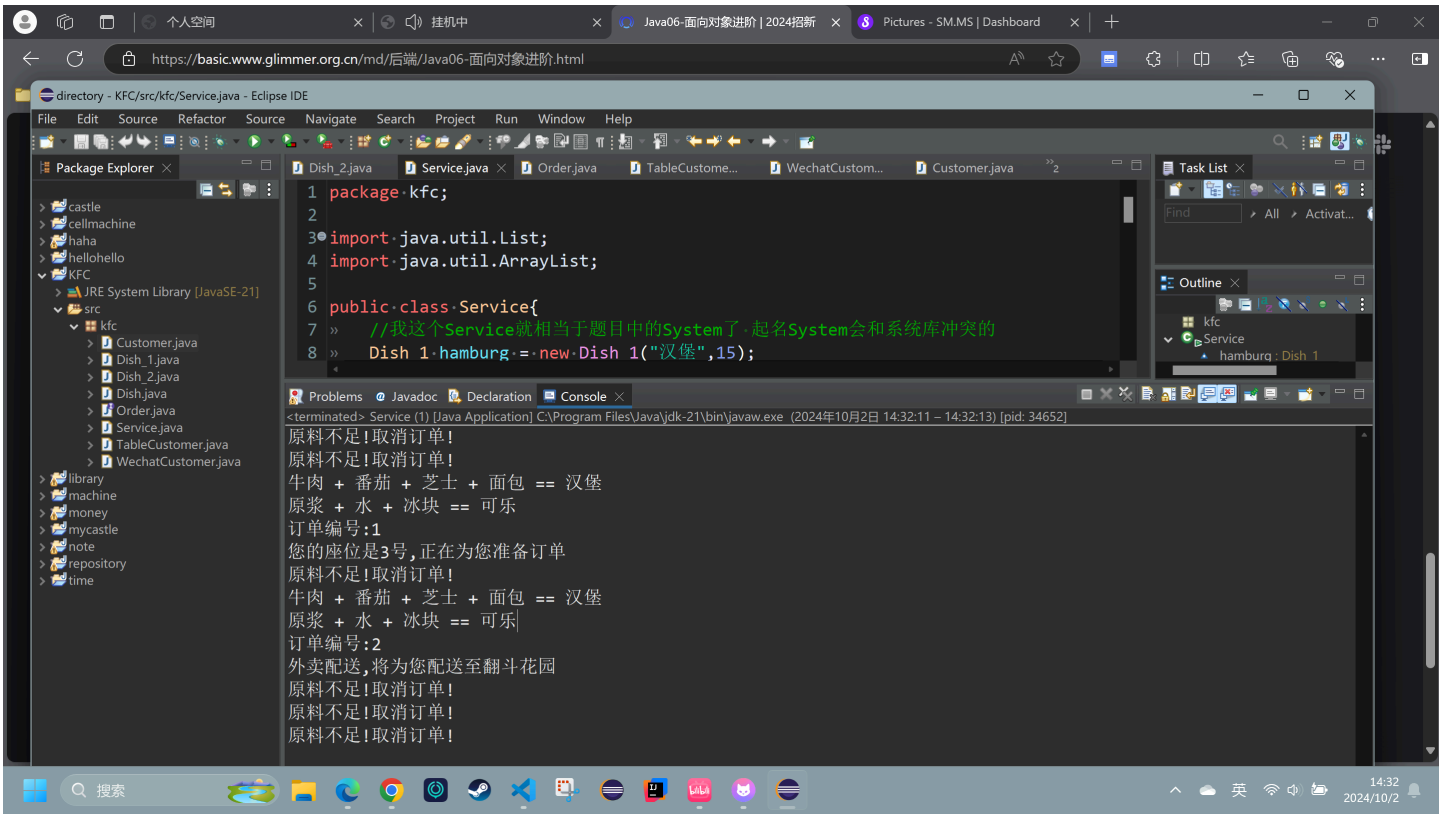
- WechatCustomer类

```
package kfc;

public class WechatCustomer extends Customer {
	private String address;
	private boolean takeout;

	public WechatCustomer(String address,boolean takeout) {
		this.address = address;
		this.takeout = takeout;
	}

	public void serve() {
		if(takeout) {
			System.out.println("外卖配送,将为您配送至"+address);
		}else {
			System.out.println("堂食,无需配送");
		}
	}

}
```

- Service类

```java
package kfc;

import java.util.List;
import java.util.ArrayList;

public class Service{
        //我这个Service就相当于题目中的System了 起名System会和系统库冲突的
        Dish_1 hamburg = new Dish_1("汉堡",15);
        Dish_2 coke = new Dish_2("可乐",5);
        List<Order> menu = new ArrayList<Order>();
        int cnt = 1;

        public void manageOrder(List<Order> dishes,Customer customer) {
                if(hamburg.check() && coke.check()) {
                        for(Order i : dishes) {
                                i.cook();
                        }
                        System.out.println("订单编号:"+cnt);
                        customer.serve();
                        cnt++;
                }else {
                        System.out.println("原料不足!取消订单!");
                }

        }

        public Service(){
                menu.add(hamburg);
                menu.add(coke);
        }

        public static void main(String[] args) {
                Service sv = new Service();
                sv.manageOrder(sv.menu,new TableCustomer(1));
                sv.manageOrder(sv.menu,new TableCustomer(2));
                sv.manageOrder(sv.menu,new TableCustomer(3));
                sv.manageOrder(sv.menu,new TableCustomer(4));
                sv.manageOrder(sv.menu,new WechatCustomer("翻斗花园", true));
                sv.manageOrder(sv.menu,new WechatCustomer("翻斗花园", true));
                sv.manageOrder(sv.menu,new WechatCustomer("", false));
                sv.manageOrder(sv.menu,new WechatCustomer("", false));

        }

}
```

运行结果如下



> 第六题卡了很久 也是终于做出来了