# 《面向对象编程与设计》课程作业

# 一、作业1

## 1、任务描述：

对下述旅游信息系统的需求描述进行建模，设计UML图，并用UML绘图工具绘制UML类图。

The tourism information system

The tourism information system maintains a catalog of tourism products and tracks the tourist routes. There are four kinds of products: domestic tourism, peripheral tourism, outbound tourism，and cruise tourism. All products are identified by a unique code.

The information for each domestic tourism product includes：

* code
* title
* departure
* destination
* tourist route
* selling price
* The travel agency name

The information for each peripheral tourism product includes：

* code
* title
* departure
* destination
* tourist route
* product feature description
* selling price
* The travel agency name

The information for each outbound tourism product includes：

* code
* title
* departure
* destination
* tourist route
* stay of days
* selling price
* The travel agency name

The information for each cruise tourism product includes：

* code
* title
* departure
* destination
* cruise company
* stay of days
* tourist route
* selling price
* The travel agency name

The system also contains a catalog of tourist routes. Each tourist route has a unique code in addition to a name. The system maintains a responsible person for each tourist route. The system stores an ID and the information about this person (name, home telephone number, QQ and email). The list of tourist attractions for each tourist route is tracked by the system. Each tourist attraction includes the name, type, and the province that it belongs to.

In the tourism information system, the user should be able to:

* Add a product into the system
* Add a route into the system
* Display the catalog by listing the code, title, departure, destination and selling price of each product.
* Display the catalog by listing the code, the responsible person and the list of tourist attractions of each route.
* Look up the information of the product which contains the specified departure and destination
* Look up the information of the route which contains the specified attraction

Look up the information of the routes which contains the specified responsible person.