|  |  |
| --- | --- |
| Class Video | Class Comment |
| Member Variables  String \_title  String \_author  Float \_lenght  Comment Comment | Member Variables  String \_name  List<comment> Comment = new List<comment>() |
| Constructor  Public Video( title, author, length, Comment)  Functions  NumberOfComments(); | Construtor  Public Comment(name, Comment) |

**YouTube Video Program**

The youtube video program will work by in the main program instantiate the constructor giving the title, author length and comment. The comment will be pushed by the comment class.

Also the number of comments can be displayed by calling the function Numberofcomments.

**Online Ordering Program**

|  |  |
| --- | --- |
| **Class Product** | **Class Customer** |
| **Variables**  **String \_name**  **int \_productId**  **double \_price**  **Int\_quantity** | **Variables**  **String \_name**  **\_address :Adress** |
| **Product()**  **Product(name, productid, price, quantity)**  **Get and setters for all attributes**  **GetTotalCost (priceperunit, quantity)** | **Customer()**  **Customer ( name, Address)**  **Get and setters for all attributes**  **customerInUSA (BOOL)** |

|  |  |
| --- | --- |
| **Class Address** | **Class Order** |
| **Variables**  **String \_** **streetAddress**  **String \_** **city**  **string \_** **state/province**  **string\_** **country** | **Variables**  **List<products> Products = new List<products>();**  **List<customer> Customer = new List<customer>();** |
| **Address()**  **Addres(\_street, city, state, country)**  **Get and setters for all attributes**  **Address(InUSA - bool)** | **Order()**  **Order (customer,product)**  **Get and setters for all attributes**  **GetTotalPrice (totalCost, OnetimeShipp);**  **ShippingCost (InUsa, NotInUSA);**  **PackingLabel(name,product)**  **ShippingLabel (name, Addres)** |

The online order program works following this order, after instantiating the customer by giving its name and address it is added to the customer list in the order class. At this time the address is empty, we need to instantiate the address class to fill all the attributes and to know if the user lives in USA or not. After filled we return to the customer class to set correctly the address. And add to the customer list.

Next we set the order of with the products the client has requested, and the quantity with the price per unity. We add all this information to the products list in the order class.

After the list are completed, we call the gettotalprice function at the order class to calculate the amount to be paid by the client. This function will call inside her body the shipping cost according to where the customer lives. And the sending with the shipping label and packing label.