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**CS210 Programming with classes**

**W04 Team Activity: Foundation Programs Design**

**For Abstraction with Youtube Videos:**

1. **What does the program do?**

The program keeps track of YouTube videos and comments left on them

1. **What are candidates for classes?**

There will be two classes that we named VideoTracker and Comment

1. **What are the responsibilities of each class?**

* The VideoTracker class has the responsibility to track the title, author, and length of the video
* The Comment class has the responsibility for tracking both the name of the person who made the comment and the text of the comment.

**For Encapsulation with Oneline Ordering:**

1. **What does the program do?**

The problem display the Packing label, the shipping label (name, address and country where make the purchase from) and the total price of the item bought.

1. **What are candidates for classes?**

There will be four classes that we named Product, Customer, Address and Order

1. **What are the responsibilities of each class?**

* The Product class has the responsibility to contain the name, product id, price, and quantity of each product. It calculates the total cost of the products.
* The customer class has the responsibility to contain a name and an address. It returns the entire address and tells whether the purchase is made from the USA or no.
* The Address class contains a string for the street address, the city, state, and country. It returns the entire address and tells whether the purchase is made from the USA or no.
* The Order class contains a list of products and a customer. Can calculate the total cost of the order. Can return a string for the packing label. Can return a string for the shipping label.