## Abstraction with Youtube Videos

#### Video

\_title : string \_author : string \_length : int

\_comments : List<Comment>

NumberOfComments(): int

DisplayInfo(): void

#### Comment

\_name : string \_text : string

DisplayComment(): void

# **Encapsulation with Online Ordering**

The word home = usa

### **Address**

\_street : string \_city : string \_state : string \_country : string \_home : string

\_HomeStates : List<string>

Address()

SetHome(string): void

SetHomeStates(List<string>): void

InHome(): bool

DisplayAddress(): string

### Customer

\_name : string \_address : Address

Customer()

LeaveInHome(): bool

DisplayCustomerInfo(): void

#### **Product**

\_name : string \_productld : int \_price : double \_quantity : int

Product()

SetQuantity(int): void CalculateCost(): double DisplayProductInfo(): void

#### Order

\_customer : Customer \_products : List<Product> \_homeShippingCost : double \_nonHomeShippingCost : double

Order()

AddProduct(Product): void CalculateTotalCost(): double DisplayPackingLabel(): void DisplayShippingLabel(): void

# Inheritance with Event Planning

### **Event** \_type:string \_title : string description: string **Address** \_date : string \_street:string \_time: string \_city:string address: Address state: string Event(title, description, date, time, \_country: string address) Address(street, city, state, country) DisplayStandardDetails(): void DisplayAddress(): string DisplayShortDescription(): void LectureEvent ReceptionEvent **OutdoorEvent** \_speaker : string email: string weatherForecast: string \_capacity:int ReceptionEvent(title, description, date, OutdoorEvent(title, description, date, time, address, email) time, address, weatherForecast) LectureEvent(title, description, date, time, address, speaker, capcity) DisplayFullDetails(): void DisplayFullDetails(): void DisplayFullDetails(): void

