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**OOP Assignment 2**

**Category**

-name: String

+ Category():

+ Category( name: String):

+ getName(): String

+ setName( name:String ): void

+ display(): void

**Products**

- name: String

- productID: int

- price: double

- quantity: int

- category: Category

+ Product():

+ Product(name: String, productID: int, price: double, quantity: int, category: Category)

+ getName(): String

+ getProductID(): int

+ getPrice(): double

+ getQuantity(): int

+ getCategory(): Category

+ setName(name: String): void

+ setProductID(productID: int): void

+ setPrice(price: double): void

+ setQuantity(quantity: int): void

+ setCategory(category: Category): void

+ display(): void

**Customer**

- customerID: int

- name: String

- emailID: String

- address: String

+ Customer():

+ Customer(customerID: int, name: String, emailID: String, address: String, orders: Order[ ], orderCount: int, reviews: Review[ ], reviewCount: int):

+ setCustomerID(): int

+ setName(): String

+ setEmailID(): String

+ setAddress(): String

+ getCustomerID(customerID: int): void

+ getName(name: String): void

+ getEmailID(emailID: String): void

+ getAddress( address: String): void

+ display(): void

**Customer**

- customerID: int

- name: String

- emailID: String

- address: String

+ Customer():

+ Customer(customerID: int, name: String, emailID: String, address: String, orders: Order[ ], orderCount: int, reviews: Review[ ], reviewCount: int):

+ setCustomerID(): int

+ setName(): String

+ setEmailID(): String

+ setAddress(): String

+ getCustomerID(customerID: int): void

+ getName(name: String): void

+ getEmailID(emailID: String): void

+ getAddress( address: String): void

+ display(): void

**Order**

- orderID: int

- orderDate: String

- products: Product[ ]

- productCount: int

+ Order():

+ Order( orderID: int, orderDate: String, products: Product[ ], productCount: int):

+ addProduct(product: Product): void

+ getOrderID(): int

+ getOrderDate(): String

+ getProducts(): Product[ ]

+ getProductCount(): int

+ setOrderID(): void

+ setOrderDate(): void

+ setProducts(): void

+ setProductCount(): void

+ display(): void

**Review**

- rating: int

- comments: String

- product: Product

+ Review():

+ Review( rating:int, comments:String)

+ getRating(): int

+ getComments(): String

+ getProduct(): Product

+ setRating(rating: int): void

+ setComments(comments: String): void

+ setProduct(product: Product): void

+ display(): void