**Foundation Program Design**

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Program 1 – YouTube Video

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| Video |
| \_author: string  \_title: string  \_length: int  \_comments: List<comment> |
| Video(string title, string author, int length)  AddComment (Comment comment): void  GetNumberOfComments (): int |

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| Comment |
| \_ccommenterName: string  \_text: string |
| Comment(string commenterName, string text) |

Program 2 – Online Ordering

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| Order |
| \_products: List<Product>  \_customer: Customer |
| Order(Customer customer)  AddProduct(): void  CalculateTotalCost(): double  GetPackingLabel(): string  GetShippingLabel(): string |

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| Product |
| \_name: string  \_productId: string  \_price: double  \_quantity: int |
| Product(string name, string productId, double price, int quantity)  GetName(): string  GetProductId(): string  GetTotalCost(): double |

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| Customer |
| \_name: string  \_address: Address |
| Customer(string name, Address address)  GetName(): string  GetAddress(): Address  IsInUsa(): bool |

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| --- |
| Address |
| \_streetAddress: string  \_city: string  \_stateProvince: string  \_country: string |
| Address(string streetAddress, string city, string stateProvince, string country)  IsInUSA(): bool  GetFullAddress(): string |