|  |
| --- |
| Name: Supplier |
| Attribute:  - supplier\_id: int  - name: string  - contact\_info: string |
| Operations :  + getSupplierId(): int  + getName(): string  + getContactInfo(): string  + setSupplierId(id: int): void  + setName(name: string): void  + setContactInfo(info: string): void  + toString(): string |

|  |
| --- |
| Product |
| Attributes:  - product\_id: int  - name: string  - description: string  - price: float  - supplier\_id: int |
| Operations:  + getProductId(): int  + getName(): string  + getDescription(): string  + getPrice(): float  + getSupplierId(): int  + setProductId(id: int): void  + setName(name: string): void  + setDescription(desc: string): void  + setPrice(price: float): void  + setSupplierId(id: int): void  + toString(): string |

**Supply Chain Management System**

**Class diagram**

|  |
| --- |
| Order |
| Attributes:  - order\_id: int  - date: int  - customer\_id: int  - status: string |
| Operations:  + getOrderId(): int  + getDate(): int  + getCustomerId(): in|  + getStatus(): string  + setOrderId(id: int): void  + setDate(date: int): void  + setCustomerId(id: int): void  + setStatus(status: string): void  + toString(): string |

|  |
| --- |
| Shipment |
| Attributes:  - shipment\_id: int  - order\_id: int  - shipment\_date: int  - delivery\_date: int  - status: string |
| Operations:  + getShipmentId(): int  + getOrderId(): int  + getShipmentDate(): int  + getDeliveryDate(): int  + getStatus(): string  + setShipmentId(id: int): void  + setOrderId(id: int): void  + setShipmentDate(date: int): void  + setDeliveryDate(date: int): void  + setStatus(status: string): void  + toString(): string |

|  |
| --- |
| Warehouse |
| Attributes:  - warehouse\_id: int  - location: string  - capacity: int |
| Operations:  + getWarehouseId(): int  + getLocation(): string  + getCapacity(): int  + setWarehouseId(id: int): void  + setLocation(loc: string): void  + setCapacity(cap: int): void  + toString(): string |

|  |
| --- |
| Inventory |
| Attributes:  - inventory\_id: int  - product\_id: int  - warehouse\_id: int  - quantity: int |
| + getInventoryId(): int  + getProductId(): int  + getWarehouseId(): in|  + getQuantity(): int  + setInventoryId(id: int): void  + setProductId(id: int): void  + setWarehouseId(id: int): void  + setQuantity(qty: int): void  + toString(): string |

|  |
| --- |
| Customer |
| Attributes:  - customer\_id: int  - name: string  - contact\_info: string |
| Operations:  + getCustomerId(): int  + getName(): string  + getContactInfo(): string  + setCustomerId(id: int): void  + setName(name: string): void  + setContactInfo(info: string): void  + toString(): string |

|  |
| --- |
| Invoice |
| Attributes:  - invoice\_id: int  - order\_id: int  - amount: float  - date: int |
| Operations:  + getInvoiceId(): int  + getOrderId(): int  + getAmount(): float  + getDate(): int  + setInvoiceId(id: int): void  + setOrderId(id: int): void  + setAmount(amount: float): void  + setDate(date: int): void  + toString(): string |

|  |
| --- |
| Delivery |
| Attributes:  - delivery\_id: int  - shipment\_id: int  - delivery\_date: int  - status: string |
| + getDeliveryId(): int  + getShipmentId(): int  + getDeliveryDate(): int  + getStatus(): string  + setDeliveryId(id: int): void  + setShipmentId(id: int): void  + setDeliveryDate(date: int): void  + setStatus(status: string): void  + toString(): string |

|  |
| --- |
| Return |
| Attributes:  - return\_id: int  - order\_id: int  - product\_id: int  - date: int  - reason: string |
| + getReturnId(): int  + getOrderId(): int  + getProductId(): int  + getDate(): int  + getReason(): string  + setReturnId(id: int): void  + setOrderId(id: int): void  + setProductId(id: int): void  + setDate(date: int): void  + setReason(reason: string): void|  + toString(): string |