prog1

February 28, 2025

```
[1]: class Recipient:
        HHHH
        The Recipient class stores customer details such as name, contact, and \Box
        It provides methods to retrieve and update recipient information.
        H H H
        def __init__(self, name, contact, address):
            self.__name = name  # Private attribute for recipient name
            self.__contact = contact # Private attribute for recipient contact
            self.__address = address # Private attribute for recipient address
        def get_details(self):
            return f"Name: {self.__name}, Contact: {self.__contact}, Address: {self.
      →__address}"
        def update_info(self, name, contact, address):
            self.__name = name
            self.__contact = contact
            self.__address = address
        # Setter and getters
        def get_name(self):
            return self. name
        def set_name(self, name):
            self.__name = name
        def get_contact(self):
            return self.__contact
        def set_contact(self, contact):
            self.__contact = contact
        def get_address(self):
            return self.__address
        def set_address(self, address):
            self.__address = address
     class Package:
        The Package class stores package details such as package ID, dimensions, and \Box
      \neg weight.
        It provides methods to retrieve package details.
        def __init__(self, package_id, dimensions, weight):
```

```
self.__package_id = package_id
       self.__dimensions = dimensions
       self.__weight = weight
   def get_package_details(self):
       return f"Package ID: {self.__package_id}, Dimensions: {self.

    dimensions}, Weight: {self._weight}kg"

class DeliveryOrder:
   The DeliveryOrder class represents a delivery order, linking a recipient to_{\sqcup}
   It includes order ID, delivery status, and methods for creating and updating
 \hookrightarrow an order.
   11 11 11
  def __init__(self, order_id, recipient, package, status="Pending"):
       self.__order_id = order_id # Private order ID
       self.__recipient = recipient # Private Recipient object
       self.__package = package # Private Package object
       self._status = status # Private status of delivery (e.q., "Pending", __
 → "Delivered")
  def create order(self):
       return f"Order {self.__order_id} Created for {self.__recipient.

get_details()}"
   def update_status(self, status):
       self.__status = status
class DeliveryNote:
   n n n
   The DeliveryNote class generates a delivery note for a specific order.
   It includes the note ID, associated order, and the date the note was issued.
  def __init__(self, note_id, order, date_issued):
       self.__note_id = note_id # Private note ID
       self.__order = order # Private DeliveryOrder object linked to the note
       self.__date_issued = date_issued # Private date of issuance
  def generate_note(self):
       return f"Delivery Note {self._note_id} generated for Order {self.
 →__order.create_order()}"
# Example Usage (Creating and Displaying Order Information)
recipient = Recipient("Sultan Allanjawi", "sultan.allanjawi@gmail.com", "Alu
 ⇔khwaneej 1, Dubai")
package = Package("PKG123", "30x20x10 cm", 7)
order = DeliveryOrder("DEL123456789", recipient, package)
delivery_note = DeliveryNote("DN-2025-001", order, "2025-03-01")
print(order.create_order()) # Creates a new order
print(delivery_note.generate_note()) # Generates a delivery note for the order
```

Order DEL123456789 Created for Name: Sultan Allanjawi, Contact: sultan.allanjawi@gmail.com, Address: Al khwaneej 1, Dubai

Delivery Note DN-2025-001 generated for Order Order DEL123456789 Created for Name: Sultan Allanjawi, Contact: sultan.allanjawi@gmail.com, Address: Alkhwaneej 1, Dubai