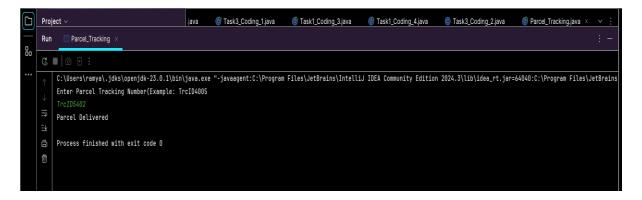
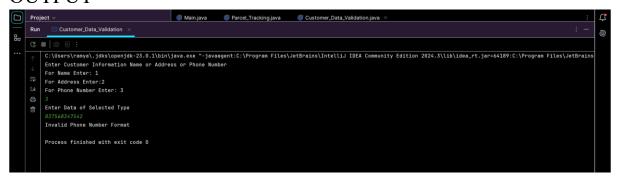
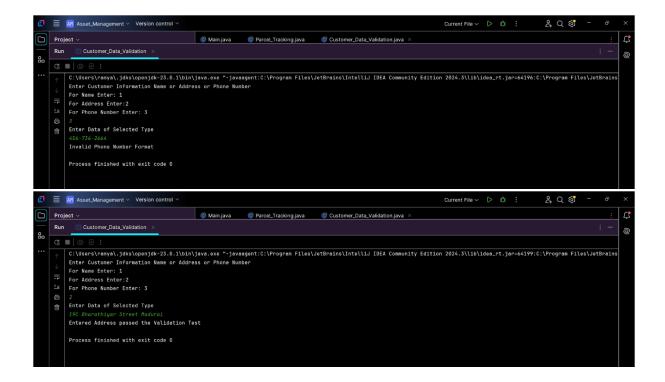
# Assignment DataStructures Code Output

1. Parcel Tracking: Create a program that allows users to input a parcel tracking number. Store the tracking number and Status in 2d String Array. Initialize the array with values. Then, simulate the tracking process by displaying messages like "Parcel in transit," "Parcel out for delivery," or "Parcel delivered" based on the tracking number's status.

## **OUTPUT**

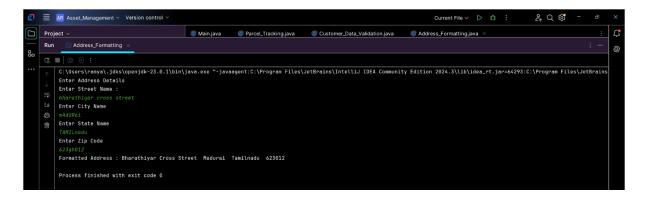




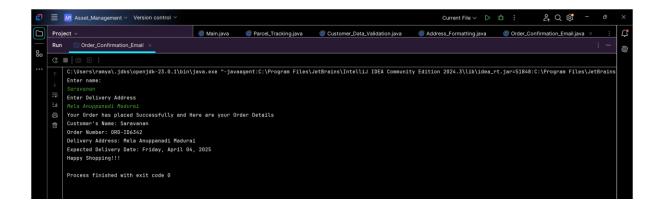


**3.Address Formatting:** Develop a function that takes an address as input (street, city, state, zip code) and formats it correctly, including capitalizing the first letter of each word and properly formatting the zip code.

### **OUTPUT**

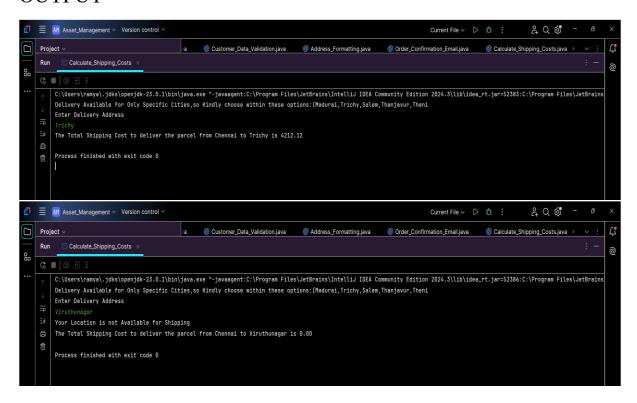


**4.Order Confirmation Email:** Create a program that generates an order confirmation email. The email should include details such as the customer's name, order number, delivery address, and expected delivery date

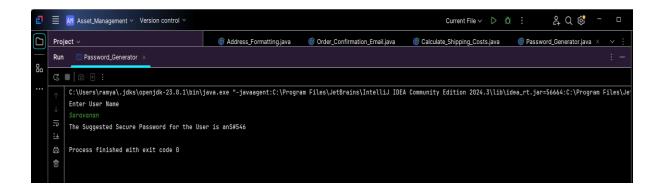


**5.**Calculate Shipping Costs: Develop a function that calculates the shipping cost based on the distance between two locations and the weight of the parcel. You can use string inputs for the source and destination addresses

## **OUTPUT**



**6.Password Generator**: Create a function that generates secure passwords for courier system accounts. Ensure the passwords contain a mix of uppercase letters, lowercase letters, numbers, and special characters.



**7.Find Similar Addresses**: Implement a function that finds similar addresses in the system. This can be useful for identifying duplicate customer entries or optimizing delivery routes. Use string functions to implement this.

