* Design and implement a restaurant management system where different functionalities are needed to manage customers, orders, and the restaurant menu. This system will cover various Java concepts, including oops, conditionals, strings, arrays, exception handling, and the collectionsframework.  
    
    
  **Menu Management:**
* The restaurant has a dynamic menu, and the manager can:
  + Add new items to the menu.
  + Remove items from the menu.
  + Update item prices
  + Display the menu (for the customer to order)
* Each menu item consists of:
  + Name (String)
  + Price (double)
  + Use an appropriate collection to store the menu (e.g., HashMap or ArrayList).
* **Customer Orders:**
  + Customers can place multiple orders (items from the menu).
  + The system should allow customers to:
  + Select items from the menu.
  + Add multiple quantities of the same item.
  + Display the total price for the order.
  + Ensure that the system handles invalid orders (e.g., selecting an item not on the menu).
* **Order History:**
  + Keep a history of customer orders and display the order summary (order number, items, quantity, total price).
  + Store past orders in a collection like LinkedList or ArrayList.
* **Payment Handling:**
  + The system should handle the payment for the order:
  + Calculate the total amount.
  + Process the payment and calculate any change.
  + If the customer pays less than the total, an exception should be thrown (e.g.,     InsufficientPaymentException).
  + Use exception handling to ensure valid payment processing (e.g., catching InputMismatchException for     invalid payment amount input).
* **Employee Management:**
  + The restaurant has a list of employees with the following attributes:
  + Name (String)
  + Position (String)
  + Salary (double)
  + Working hours (int)
  + Id(int)
  + Employees should be managed in a collection (e.g., ArrayList or HashMap).
  + You should be able to:
  + Add, remove, and update employee information.
  + Display employee information by their ID.