

LinkedList.java

```
public class LinkedList {
    Node first;
    Node current;
    Node last;

    public LinkedList() {
        first = current = last = null;
    }

    public boolean isEmpty() {
        return (first == null);
    }

    public void insertAtFront(Object insertItem) {
        Node newNode = new Node(insertItem);

        if (isEmpty()) {
            first = newNode;
            last = newNode;
        } else {
            newNode.next = first;
            first = newNode;
        }
    }

    public void insertAtBack(Object insertItem) {
        Node newNode = new Node(insertItem);

        if (isEmpty()) {
            first = newNode;
            last = newNode;
        } else {
            last.next = newNode;
            last = newNode;
        }
    }

    public Object removeFromFront() {
        Object removeItem = null;
        if (isEmpty()) {
            return removeItem;
        }
        removeItem = first.data;

        if (first == last) {
            first = null;
            last = null;
        } else {
            first = first.next;
        }
    }
}
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    }
    return removeItem;
}

public Object removeFromBack() {
    Object removeItem = null;

    if (isEmpty()) {
        return removeItem;
    }
    removeItem = last.data;

    if (first == last) {
        first = null;
        last = null;
    } else {
        current = first;
        while (current.next != last) {
            current = current.next;
        }
        last = current;
        last.next = null;
    }

    return removeItem;
}

public Object getFirst() {
    if (isEmpty()) {
        return null;
    } else {
        current = first;
        return current.data;
    }
}

// Get the next node pointed by current node
public Object getNext() {
    if (current == last) {
        return null;
    } else {
        current = current.next;
        return current.data;
    }
}

// Get the size of the list
public int getSize() {
    Node current = first;
    int size = 0;
    while (current != null) {

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        size++;
        current = current.next;
    }

    return size;
}

public void removeAtIndex(int index) {
    if (index < 0) {
        System.out.println("Invalid index");
        return;
    }

    if (index == 0) {
        first = first.next;
        return;
    }

    Node current = first;
    Node prev = null;
    int count = 0;

    while (current != null && count < index) {
        prev = current;
        current = current.next;
        count++;
    }

    if (current == null) {
        System.out.println("Index out of range");
        return;
    }

    prev.next = current.next;
}

public int indexOf(PurchasementDetail pd) {
    int index = 0;
    Node current = first;

    while (current != null) {
        if (current.data.equals(pd)) {
            return index;
        }
        current = current.next;
        index++;
    }

    return -1; // Element not found
}
}

```

Node.java

```
public class Node {
    Object data;
    Node next;

    public Node() {
        data = null;
        next = null;
    }

    public Node(Object data) {
        this.data = data;
        next = null;
    }
}
```

Queue.java

```
import java.util.LinkedList;

public class Queue<E> {
    LinkedList<E> list;

    public Queue() {
        list = new LinkedList<E>();
    }

    public int size() {
        return list.size();
    }

    public boolean isEmpty() {
        return list.isEmpty();
    }

    public void enqueue(E item) {
        list.addLast(item);
    }

    public E dequeue() {
        return list.removeFirst();
    }

    public E front() {
        return list.getFirst();
    }
}
```

Client.java

```
public class Client {

    private String name;
    private String noIC;
    private String noPhone;
    private String Email;
    private CarPackage cp;

    public Client() {
        name = "";
        noIC = "";
        noPhone = "";
        Email = "";
    }

    public void setDetails(String nm, String IC, String np, String email, double bp, int aChoice,
char bk) {
        name = nm;
        noIC = IC;
        noPhone = np;
        Email = email;
        cp = new CarPackage (bp, aChoice, bk);
    }

    public void setName(String nm) {
        name = nm;
    }
    public void setNoIC(String IC) {
        noIC = IC;
    }
    public void setNoPhone(String np) {
        noPhone = np;
    }
    public void setCustEmail(String Cemail) {
        Email = Cemail;
    }

    public String getName() {
        return name;
    }
    public String getNoIC() {
        return noIC;
    }
    public String getNoPhone() {
        return noPhone;
    }
    public String getCustEmail() {
```

```

        return Email;
    }

    public String toString() {
        return "Name: " + name + "\nIc: " + noIC + "\nPhone: " + noPhone + "\nEmail: " +
Email;
    }

    public double totalPayment(int size, char hasBodykit) {

        return (cp.calcPayment(size) + cp.calcBodykitFee(hasBodykit));
    }
}

```

CarPackage.java

```

public class CarPackage {
    protected double basePrice;
    protected int amountPreference;
    protected char hasBodykit;

    public CarPackage(double bp, int ap, char bk) {
        basePrice = bp;
        amountPreference = ap;
        hasBodykit = bk;
    }

    public double getBasePrice() {
        return basePrice;
    }
    public int getAmountPreference() {
        return amountPreference;
    }
    public char getHasBodykit() {
        return hasBodykit;
    }
    public double calcBodykitFee(char hasBodykit) {
        double bodykitFee = 0.0;
        if (hasBodykit == 'Y' || hasBodykit == 'y') {
            bodykitFee = 800.00;
        }
        return bodykitFee;
    }

    public double calcPayment(int size) {
        double totalPrice = basePrice;

        if (size >= 2) {
            totalPrice = totalPrice - 500 ;
        } else if (size < 2) {

```

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        totalPrice = totalPrice;
    }
    return totalPrice;
}
}

```

Car.java

```

public class Car {
    private String carName;
    private double price;
    private int yearMade;
    private double mileage;
    private String condition;

    public Car() {
        carName = "";
        price = 0.0;
        yearMade = 0;
        mileage = 0.0;
        condition = "";
    }

    public Car(String nm, double p, int y, double m, String c) {
        carName = nm;
        price = p;
        yearMade = y;
        mileage = m;
        condition = c;
    }

    public String getCarName() { return carName; }
    public double getPrice() { return price; }
    public int getYearMade() { return yearMade; }
    public double getMileage() { return mileage; }
    public String getCondition() { return condition; }

    public String toString() {
        return String.format("%-20s RM %-10.2f Year: %-4d Mileage: %-8.1f km Condition: %-10s",
            carName, price, yearMade, mileage, condition);
    }
}

```

PurchasementDetail.java

```
public class PurchasementDetail {

    private String pickupName;
    private String carColor;
    private String rimColor;
    private String purchaseDate;
    private String desiredLocation;

    public PurchasementDetail() {
        pickupName = "";
        carColor = "";
        rimColor = "";
        purchaseDate = "";
        desiredLocation = "";
        pickupName = "";
    }

    public PurchasementDetail(String pickupN, String color, String rim, String date, String
location) {
        pickupName = pickupN;
        carColor = color;
        rimColor = rim;
        purchaseDate = date;
        desiredLocation = location;
    }

    public void setPickupName(String pn) { pickupName = pn; }
    public void setCarColor(String cc) { carColor = cc; }
    public void setRimColor(String rc) { rimColor = rc; }
    public void setPurchaseDate(String pd) { purchaseDate = pd; }
    public void setDesiredLocation(String dl) { desiredLocation = dl; }

    public void setDetails(String pn,String cc, String rc, String pd, String dl ) {
        pickupName = pn;
        carColor = cc;
        rimColor = rc;
        purchaseDate = pd;
        desiredLocation = dl;
    }

    public String getPickupName() { return pickupName; }
    public String getCarColor() { return carColor; }
    public String getRimColor() { return rimColor; }
    public String getPurchaseDate() { return purchaseDate; }
    public String getDesiredLocation() { return desiredLocation; }
```



```

public String toString() {
    return "\nName of the person that pickup the car: " + pickupName +
        "\nCar Color: " + carColor +
        "\nRim Color: " + rimColor +
        "\nPurchase Date: " + purchaseDate +
        "\nDesired Location: " + desiredLocation;
}
}

```

CarDealerLL.java

```

import java.io.*;
import java.util.*;

public class CarDealerLL {
    public static void main(String[] args) {
        try {
            Scanner sc = new Scanner(System.in);
            Client cl = new Client();
            LinkedList PurchasementLL = new LinkedList();
            LinkedList CarLL = new LinkedList();

            FileReader fr = new FileReader("C:\\Users\\user\\Documents\\CarDetail.txt");
            BufferedReader br = new BufferedReader(fr);
            FileWriter wr = new
FileWriter("C:\\Users\\user\\Documents\\PurchasementDetails.txt");
            PrintWriter pw = new PrintWriter(wr);
            String strLine;

            while ((strLine = br.readLine()) != null) {
                try {
                    String[] data = strLine.split(",");
                    if (data.length != 5) {
                        throw new IllegalArgumentException("Invalid data format: " + strLine);
                    }

                    String carName = data[0].trim();
                    double price = Double.parseDouble(data[1].trim());
                    int yearMade = Integer.parseInt(data[2].trim());
                    double mileage = Double.parseDouble(data[3].trim());
                    String condition = data[4].trim();

                    Car cr = new Car(carName, price, yearMade, mileage, condition);
                    CarLL.insertAtBack(cr);

                } catch (Exception e) {
                    System.err.println("Error parsing car details: " + strLine + ". Skipping this line.");
                }
            }
        }
    }
}

```

```

    }

    System.out.println("=====
=====");
    System.out.println("||");
    System.out.println("|| Welcome to HUA Refurbished Car Dealership ||");
    System.out.println("||");

    System.out.println("=====
=====");
    System.out.println("-----");
    System.out.println("🌐 Your Car, Anywhere in Malaysia 🌐");
    System.out.println("-----");
    System.out.println("✓ 100+ branches nationwide.");
    System.out.println("✓ Make deals anytime, anywhere with your preference and
versatility.");
    System.out.println("✓ Many options for customer's main plan and backup plan.");
    System.out.println("✓ Perfect for personal or gift purposes.");
    System.out.println("-----");
    System.out.print("\nPlease Enter your Personal Detail ");
    System.out.print("\nEnter Name: ");
    String name = sc.nextLine();
    System.out.print("Enter IC Number: ");
    String noIC = sc.nextLine();
    System.out.print("Enter Phone Number: ");
    String noPhone = sc.nextLine();
    System.out.print("Enter Email: ");
    String Email = sc.nextLine();
    System.out.print("\nCustomer that provides many purchasement plan will ease our
dealer work ");
    System.out.print("\n!! RM500 DISCOUNT will be given if there is more than 1 !! ");
    System.out.print("\nEnter Number Of Purchasement Plan: ");
    int amountChoice = sc.nextInt();

    PurchasementDetail[] PD = new PurchasementDetail[amountChoice];

    for (int i = 0; i < amountChoice; i++) {
        PD[i] = new PurchasementDetail();
        System.out.print("\nPurchasement Plan " + (i + 1));
        System.out.print("\nName of the person that pickup the car: ");
        String pickupName = sc.next();
        System.out.print("Enter Car Color: ");
        String carColor = sc.next();
        sc.nextLine();
        System.out.print("Enter Rim Color: ");
        String rimColor = sc.nextLine();
        System.out.print("Enter Purchase Date [dd/mm/yyyy]: ");
        String purchaseDate = sc.nextLine();
        System.out.print("Enter Desired Purchase Location: ");
        String desiredLocation = sc.nextLine();
    }

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        PD[i].setDetails(pickupName, carColor, rimColor, purchaseDate, desiredLocation);
        PurchasementLL.insertAtBack(PD[i]);
    }
    Car cr = (Car) CarLL.getFirst();

    System.out.println("Available cars:");
    while (cr != null) {
        System.out.println(cr.toString());
        cr = (Car) CarLL.getNext();
    }

    System.out.print("\nChoose your car: ");
    String chosenCar = sc.nextLine();
    System.out.print("Do You Want the Car Bodykit Package (Y/N): ");
    char hasBodykit = sc.nextLine().charAt(0);
    double basePrice = 0.0;

    cr = (Car) CarLL.getFirst();

    while (cr != null) {
        if (cr.getCarName().equalsIgnoreCase(chosenCar)) {
            basePrice = cr.getPrice();
            break;
        }
        cr = (Car) CarLL.getNext();
    }

    if (basePrice == 0.0) {
        System.out.println("Car not found. Please choose a valid car.");
    }

    cl.setDetails(name, noIC, noPhone, Email, basePrice, amountChoice, hasBodykit);

    System.out.print("\n\n0. End program"
        + "\n1. Calculate total payment"
        + "\n2. View personal details"
        + "\n3. Change personal information"
        + "\n4. View Purchasement Plan details"
        + "\n5. Change Purchasement Plan details"
        + "\n6. Search Purchasement Plan details by name of the person that pickup for
Confirmation "
        + "\nChoose your option: ");
    int option = sc.nextInt();

    double finalPayment = 0.0;

    while (option != 0) {
        if (option == 1) {

```

```

        finalPayment = cl.totalPayment(PurchasementLL.getSize(), hasBodykit);
        System.out.print("Total Payment: RM" + finalPayment + "\n");
    } else if (option == 2) {
        System.out.print(cl.toString());
    } else if (option == 3) {
        System.out.print("\n1 Name" + "\n2 IC Number" + "\n3 Phone Number" + "\n4
Email"
        + "\nPlease select info to change: ");
        int editOption = sc.nextInt();

        if (editOption == 1) {
            System.out.print("Enter new name: ");
            name = sc.next();
            cl.setName(name);
        } else if (editOption == 2) {
            System.out.print("Enter new IC number: ");
            noIC = sc.next();
            cl.setNoIC(noIC);
        } else if (editOption == 3) {
            System.out.print("Enter new phone number: ");
            noPhone = sc.next();
            cl.setNoPhone(noPhone);
        } else if (editOption == 4) {
            System.out.print("Enter new email: ");
            Email = sc.next();
            cl.setCustEmail(Email);
        }
    }

    } else if (option == 4) {
        for (int i = 0; i < amountChoice; i++) {

            System.out.println("\nPurchasement Plan " + (i + 1) + PD[i].toString() + "\n");
        }

    } else if (option == 5) {
        System.out.print("Enter Name of the person that pickup to change
Purchasement Plan detail : ");
        String pName = sc.next();

        PurchasementDetail pd = (PurchasementDetail) PurchasementLL.getFirst();//

        while (pd != null) {
            if (pd.getPickupName().contains(pName)) {
                System.out.print("1 - Name of the person that pickup the car\n2 - Car
Color\n3 - Rim Color\n4 - Purchase Date\n5 - Desired Location\nChoose information to
change: ");

                int editPref = sc.nextInt();

                if (editPref == 1) {
                    System.out.print("Enter new name of the person that pickup the car : ");
                    String pickupName = sc.next();

```

```

        pd.setPickupName(pickupName);
    }
    if (editPref == 2) {
        System.out.print("Enter new Car Color you Preferred : ");
        String carColor = sc.next();
        pd.setCarColor(carColor);
    } else if (editPref == 3) {
        System.out.print("Enter new Rim Color you Preferred : ");
        String rColor = sc.next();
        pd.setRimColor(rColor);
    } else if (editPref == 4) {
        System.out.print("Enter new purchase date: ");
        String pDate = sc.next();
        pd.setPurchaseDate(pDate);
    } else if (editPref == 5) {
        System.out.print("Enter new desired location: ");
        String DLoc = sc.next();
        pd.setDesiredLocation(DLoc);
    }
}
pd = (PurchasementDetail) PurchasementLL.getNext();

}
}
else if (option == 6) {
    System.out.print("Enter name of the person that pickup the car for Final
Confirmation : ");
    String pName = sc.next();
    PurchasementDetail pd = (PurchasementDetail)
PurchasementLL.getFirst();

    while (pd != null) {
        if (pd.getPickupName().contains(pName)) {
            System.out.println(pd.toString());
        }
        pd = (PurchasementDetail) PurchasementLL.getNext();
    }
}

System.out.print("\n\n0. End program"
+ "\n1. Calculate total payment"
+ "\n2. View personal details"
+ "\n3. Change personal information"
+ "\n4. View Purchasement Plan details"
+ "\n5. Change Purchasement Plan details"
+ "\n6. Search Purchasement Plan details by name of the person that
pickup for Confirmation "
+ "\nChoose your option: ");
option = sc.nextInt();
}

```

```

pw.println("\n" + "-".repeat(80));
pw.println("          HUA Refurbished Car Dealership    ");
pw.println("-".repeat(80));
pw.println("\n🔗 Client Details 🔗");
pw.println("-".repeat(80));
pw.println("Name: " + name);
pw.println("IC: " + noIC);
pw.println("Phone: " + noPhone);
pw.println("Email: " + Email);
pw.println("\nChosen Car: " + chosenCar);
pw.println("\n🚗 Car Purchasement Plan Detail List 🚗");
pw.println("-".repeat(80));
pw.println(String.format("%-20s %-15s %-15s %-20s %-20s",
    "Name for Pickup", "Car Color", "Rim Color", "Purchase Date", "Location"));
pw.println("-".repeat(80));

```

```

PurchasementDetail pd = (PurchasementDetail) PurchasementLL.getFirst();

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```

while (pd != null) {
    pw.println(String.format("%-20s %-15s %-15s %-20s %-20s",
        pd.getPickupName(), // Added Name for Pickup
        pd.getCarColor(),
        pd.getRimColor(),
        pd.getPurchaseDate(),
        pd.getDesiredLocation()));
    pd = (PurchasementDetail) PurchasementLL.getNext();
}

```

```

pw.println("\n💰 Total Payment 💰");
pw.println("-".repeat(80));
pw.println("Total Payment: RM" + finalPayment);
pw.println("-".repeat(80));

```

```

System.out.println("=====");
System.out.println("          Payment Invoice          ");
System.out.println("=====");
System.out.println(cl.toString());
System.out.println("=====");
System.out.println("          Chosen Car : " + chosenCar);
System.out.println("=====");
System.out.println("Total Price : RM" + finalPayment);
System.out.println("=====");

```

```

sc.close();
pw.close();
} catch (FileNotFoundException fe){
    System.out.println(fe.getMessage());
} catch (Exception e){
    System.err.println("Error: " + e.getMessage());
}

```

```

        } finally{
            System.out.println("\nThank you for dealing from us!");
            System.out.println("\nWe look forward to your arrival in our shop for further
business ");
        }

    }
}

```

CarDealerQ.java

```

import java.io.*;
import java.util.*;

public class CarDealerQ {

    public static void main(String[] args) {
        try {
            Scanner sc = new Scanner(System.in);
            Scanner sc1 = new Scanner(System.in);
            Client cl = new Client();
            Queue<PurchasementDetail> PurchasementQ = new Queue<>();
            Queue<Car> CarQ = new Queue<>();
            Queue<PurchasementDetail> PurchasementTemp = new Queue<>();
            Queue<Car> CarTemp = new Queue<>();
            Car obj;
            PurchasementDetail obj1;

            FileReader fr = new FileReader("C:\\Users\\user\\Documents\\CarDetail.txt");
            BufferedReader br = new BufferedReader(fr);
            FileWriter wr = new
FileWriter("C:\\Users\\user\\Documents\\PurchasementDetails.txt");
            PrintWriter pw = new PrintWriter(wr);

            String strLine;

            while ((strLine = br.readLine()) != null) {
                try {
                    String[] data = strLine.split(",");
                    if (data.length != 5) {
                        throw new IllegalArgumentException("Invalid data format: " + strLine);
                    }

                    String carName = data[0].trim();
                    double price = Double.parseDouble(data[1].trim());
                    int yearMade = Integer.parseInt(data[2].trim());

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        double mileage = Double.parseDouble(data[3].trim());
        String condition = data[4].trim();

        Car car = new Car(carName, price, yearMade, mileage, condition);
        CarQ.enqueue(car);
    } catch (Exception e) {
        System.err.println("Error parsing car details: " + strLine + ". Skipping this line.");
    }
}

```

```

System.out.println("=====
=====");
System.out.println("||");
System.out.println("|| Welcome to HUA Refurbished Car Dealership ||");
System.out.println("||");

```

```

System.out.println("=====
=====");
System.out.println("-----");
System.out.println("🌐 Your Car, Anywhere in Malaysia 🌐");
System.out.println("-----");
System.out.println("✓ 100+ branches nationwide.");
System.out.println("✓ Make deals anytime, anywhere with your preference and
versatility.");
System.out.println("✓ Many options for customer's main plan and backup plan.");
System.out.println("✓ Perfect for personal or gift purposes.");
System.out.println("-----");
System.out.print("\nPlease Enter your Personal Detail ");
System.out.print("\nEnter Name: ");
String name = sc.nextLine();
System.out.print("Enter IC Number: ");
String noIC = sc.nextLine();
System.out.print("Enter Phone Number: ");
String noPhone = sc.nextLine();
System.out.print("Enter Email: ");
String Email = sc.nextLine();
System.out.print("\nCustomer that give many provides many purchasement plan will
ease our dealer work ");
System.out.print("\n!! RM500 DISCOUNT will be given if there is more than 1 !! ");
System.out.print("\nEnter Number Of Purchasement Plan: ");
int amountChoice = sc.nextInt();

```

```

PurchasementDetail[] PD = new PurchasementDetail[amountChoice];

```

```

for (int i = 0; i < amountChoice; i++) {
    PD[i] = new PurchasementDetail();
    System.out.print("\nPurchasement Plan " + (i + 1));
    System.out.print("\nName of the person that pickup the car: ");
    String pickupName = sc.next();
}

```



```

        System.out.print("Enter Car Color: ");
        String carColor = sc.next();
        sc.nextLine();
        System.out.print("Enter Rim Color: ");
        String rimColor = sc.nextLine();
        System.out.print("Enter Purchase Date [dd/mm/yyyy]: ");
        String purchaseDate = sc.nextLine();
        System.out.print("Enter Desired Purchase Location: ");
        String desiredLocation = sc.nextLine();

        PD[i].setDetails(pickupName,carColor, rimColor, purchaseDate, desiredLocation);
        PurchasementQ.enqueue(PD[i]);
    }

    System.out.println("Available cars:");
    while (!CarQ.isEmpty()) {
        obj = CarQ.dequeue();
        System.out.println(obj.toString());
        CarTemp.enqueue(obj);
    }

    while (!CarTemp.isEmpty()) {
        CarQ.enqueue(CarTemp.dequeue());
    }

    System.out.print("\nChoose your car: ");
    String chosenCar = sc.nextLine(); // Use nextLine to capture the full car name
    System.out.print("Do You Want the Car Bodykit Package (Y/N): ");
    char hasBodykit = sc.nextLine().charAt(0);
    double basePrice = 0.0; // Updated to handle car not found scenario

    while (!CarQ.isEmpty()) {
        obj = CarQ.dequeue();
        if (obj.getCarName().equalsIgnoreCase(chosenCar)) {
            basePrice = obj.getPrice();
        }
        CarTemp.enqueue(obj);
    }

    while (!CarTemp.isEmpty()) {
        CarQ.enqueue(CarTemp.dequeue());
    }

    if (basePrice == 0.0) {
        throw new Exception("Selected car not found in inventory.");
    }

    cl.setDetails(name, noIC, noPhone, Email, basePrice, amountChoice, hasBodykit);

    System.out.print("\n\n0. End program"

```

```

        + "\n1. Calculate total payment"
        + "\n2. View personal details"
        + "\n3. Change personal information"
        + "\n4. View Purchasement Plan details"
        + "\n5. Change Purchasement Plan details"
        + "\n6. Search Purchasement Plan details by name of the person that pickup for
Confirmation "
        + "\nChoose your option: ");
    int option = sc.nextInt();

    double totalPayment = 0.0;

    while (option != 0) {
        if (option == 1) {
            totalPayment = cl.totalPayment(PurchasementQ.size(), hasBodykit);
            System.out.print("Total Payment: RM" + totalPayment + "\n");
        } else if (option == 2) {
            System.out.print(cl.toString());
        } else if (option == 3) {
            System.out.print("\n1 Name" + "\n2 IC Number" + "\n3 Phone Number" + "\n4
Email"
            + "\nPlease select info to change: ");
            int editOption = sc.nextInt();

            if (editOption == 1) {
                System.out.print("Enter new name: ");
                name = sc.next();
                cl.setName(name);
            } else if (editOption == 2) {
                System.out.print("Enter new IC number: ");
                noIC = sc.next();
                cl.setNoIC(noIC);
            } else if (editOption == 3) {
                System.out.print("Enter new phone number: ");
                noPhone = sc.next();
                cl.setNoPhone(noPhone);
            } else if (editOption == 4) {
                System.out.print("Enter new email: ");
                Email = sc.next();
                cl.setCustEmail(Email);
            }
        }

        } else if (option == 4) {
            for (int i = 0; i < amountChoice; i++) {
                System.out.println("\nPurchasement Detail " + (i + 1) + PD[i].toString() + "\n");
            }
        } else if (option == 5) {
            System.out.print("Enter Name of the person that pickup to change
Purchasement detail : ");
            String pName = sc.next();

```

```

while (!PurchasementQ.isEmpty()) {
    obj1 = PurchasementQ.dequeue();
    if (obj1.getPickupName().contains(pName)) {
        System.out.print("1 - Name of the person that pickup the car\n2 - Car
Color\n3 - Rim Color\n4 - Purchase Date\n5 - Desired Location\nChoose information to
change: ");

        int editPref = sc.nextInt();
        if (editPref == 1) {
            System.out.print("Enter new name of the person that pickup the car : ");
            String pickupName = sc.next();
            obj1.setPickupName(pickupName);
        } else if (editPref == 2) {
            System.out.print("Enter new Car Color you Preferred : ");
            String carColor = sc.next();
            obj1.setCarColor(carColor);
        } else if (editPref == 3) {
            System.out.print("Enter new Rim Color you Preferred : ");
            String rColor = sc.next();
            obj1.setRimColor(rColor);
        } else if (editPref == 4) {
            System.out.print("Enter new purchase date: ");
            String pDate = sc.next();
            obj1.setPurchaseDate(pDate);
        } else if (editPref == 5) {
            System.out.print("Enter new desired location: ");
            String DLoc = sc.next();
            obj1.setDesiredLocation(DLoc);
        }
    }
    PurchasementTemp.enqueue(obj1);
}
while (!PurchasementTemp.isEmpty()) {
    PurchasementQ.enqueue(PurchasementTemp.dequeue());
}
} else if (option == 6) {
    System.out.print("Enter name of the person that pickup the car for Confirmation
: ");

    String pName = sc.next();
    while (!PurchasementQ.isEmpty()) {
        obj1 = PurchasementQ.dequeue();
        if (obj1.getPickupName().contains(pName)) {
            System.out.println(obj1.toString());
        }
        PurchasementTemp.enqueue(obj1);
    }
    while (!PurchasementTemp.isEmpty()) {
        PurchasementQ.enqueue(PurchasementTemp.dequeue());
    }
}

System.out.print("\n\n0. End program"

```

```

        + "\n1. Calculate total payment"
        + "\n2. View personal details"
        + "\n3. Change personal information"
        + "\n4. View Purchasement details"
        + "\n5. Change Purchasement details"
        + "\n6. Search Purchasement details by name of the person that pickup for
Confirmation "
        + "\nChoose your option: ");
    option = sc.nextInt();
}

pw.println("\n" + "-".repeat(80));
pw.println("          HUA Refurbished Car Dealership    ");
pw.println("-".repeat(80));
pw.println("\n🔗 Client Details 🔗");
pw.println("-".repeat(80));
pw.println("Name: " + name);
pw.println("IC: " + noIC);
pw.println("Phone: " + noPhone);
pw.println("Email: " + Email);
pw.println("\nChosen Car: " + chosenCar);
pw.println("\n🚗 Car Purchasement Detail List 🚗");
pw.println("-".repeat(80));
pw.println(String.format("%-20s %-15s %-15s %-20s %-20s",
    "Name for Pickup", "Car Color", "Rim Color", "Purchase Date", "Location"));
pw.println("-".repeat(80));

while (!PurchasementQ.isEmpty()) {
    obj1 = PurchasementQ.dequeue();
    pw.println(String.format("%-20s %-15s %-15s %-20s %-20s",
        obj1.getPickupName(), // Added Name for Pickup
        obj1.getCarColor(),
        obj1.getRimColor(),
        obj1.getPurchaseDate(),
        obj1.getDesiredLocation()));
    PurchasementTemp.enqueue(obj1);
}

while (!PurchasementTemp.isEmpty()) {
    PurchasementQ.enqueue(PurchasementTemp.dequeue());
}

pw.println("\n💰 Total Payment 💰");
pw.println("-".repeat(80));
pw.println("Total Payment: RM" + totalPayment);
pw.println("-".repeat(80));

```

```

        System.out.println("=====");
        System.out.println("          Payment Invoice          ");
        System.out.println("=====");
        System.out.println(cl.toString());
        System.out.println("=====");
        System.out.println("      Chosen Car : " + chosenCar      );
        System.out.println("=====");
        System.out.println("Total Price : RM" + totalPayment);
        System.out.println("=====");

        sc.close();
        pw.close();
    } catch (FileNotFoundException fe) {
        System.out.println(fe.getMessage());
    } catch (Exception e) {
        System.err.println("Error: " + e.getMessage());
    } finally {
        System.out.println("\nThank you for dealing from us!");
        System.out.println("\nWe look forward to your arrival in our shop for further business
");
    }
}
}
}

```