**package** Package1;

**import** java.util.\*;

**public** **class** CameraApplication2 {

**private** **static** Map<String, Double> *cameraRentMap* = **new** HashMap<>();

**private** **static** **double** *walletAmount* = 5000;

**public** **static** **void** main(String[] args) {

*initializeCameraRentMap*();

Scanner scanner = **new** Scanner(System.***in***);

**int** option;

**do** {

*displayMenu*();

option = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

**switch** (option) {

**case** 1:

*displayCameraRentList*();

**break**;

**case** 2:

*rentCamera*(scanner);

**break**;

**case** 3:

*manageWallet*(scanner);

**break**;

**case** 4:

*navigateToMainContext*();

**break**;

**case** 5:

// Add code for closing the application

**break**;

**case** 6:

*searchCamera*(scanner);

**break**;

**default**:

System.***out***.println("Invalid option. Please try again.");

**break**;

}

} **while** (option != 5);

scanner.close();

}

**private** **static** **void** initializeCameraRentMap() {

System.***out***.println(" <b> Welcome to the Peer to Peer Camera Rental Application! </b>");

System.***out***.println("This Application has been developed by Ms. Pooja Singh");

System.***out***.println("This application allows you to rent cameras from other users.");

System.***out***.println("To get started, please select one of the following options:");

*cameraRentMap*.put("Sony ESC12", 1000.0);

*cameraRentMap*.put("Canon udkw983", 1800.0);

*cameraRentMap*.put("Nikon JWN847", 1200.0);

*cameraRentMap*.put("Kotak NEQ472", 1500.0);

}

**private** **static** **void** displayMenu() {

System.***out***.println("Peer-to-Peer Application");

System.***out***.println("1. List of available cameras and their per day rent");

System.***out***.println("2. Select a camera to rent");

System.***out***.println("3. Add/view wallet amount");

System.***out***.println("4. Navigate from current to main context");

System.***out***.println("5. Close the application");

System.***out***.println("6. Search for a camera");

System.***out***.print("Enter your option: ");

}

**private** **static** **void** displayCameraRentList() {

List<Map.Entry<String, Double>> sortedCameraList = **new** ArrayList<>(*cameraRentMap*.entrySet());

// Sort the camera list based on rent in ascending order

sortedCameraList.sort(Map.Entry.*comparingByValue*());

System.***out***.println("Available Cameras and Rent per Day:");

**for** (Map.Entry<String, Double> entry : sortedCameraList) {

String camera = entry.getKey();

**double** rent = entry.getValue();

System.***out***.println(camera + " - Rent: Rs" + rent);

}

System.***out***.println();

}

**private** **static** **void** rentCamera(Scanner scanner) {

System.***out***.println("Select a camera to rent:");

**int** count = 1;

**for** (String camera : *cameraRentMap*.keySet()) {

System.***out***.println(count + ". " + camera);

count++;

}

System.***out***.print("Enter your choice: ");

**int** choice = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

**if** (choice >= 1 && choice <= *cameraRentMap*.size()) {

String selectedCamera = (String) *cameraRentMap*.keySet().toArray()[choice - 1];

**double** rent = *cameraRentMap*.get(selectedCamera);

System.***out***.println("You have rented " + selectedCamera + " for Rs" + rent + " per day.");

} **else** {

System.***out***.println("Invalid choice.");

}

System.***out***.println();

}

**private** **static** **void** manageWallet(Scanner scanner) {

System.***out***.println("Wallet Amount: Rs" + *walletAmount*);

System.***out***.println("1. Add money to wallet");

System.***out***.println("2. View wallet amount");

System.***out***.print("Enter your choice: ");

**int** choice = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

**switch** (choice) {

**case** 1:

System.***out***.print("Enter the amount to add: Rs");

**double** amount = scanner.nextDouble();

scanner.nextLine(); // Consume the newline character

*walletAmount* += amount;

System.***out***.println("Amount added successfully.");

**break**;

**case** 2:

System.***out***.println("Wallet Amount: Rs" + *walletAmount*);

**break**;

**default**:

System.***out***.println("Invalid choice.");

**break**;

}

System.***out***.println();

}

**private** **static** **void** navigateToMainContext() {

System.***out***.println("Navigating to main context...");

System.***out***.println();

}

**private** **static** **void** searchCamera(Scanner scanner) {

System.***out***.print("Enter the camera brand and model to search (e.g., Brand Model): ");

String searchInput = scanner.nextLine();

String[] searchTokens = searchInput.split(" ");

**if** (searchTokens.length >= 2) {

String searchBrand = searchTokens[0];

String searchModel = searchTokens[1];

String searchKey = searchBrand + " " + searchModel;

**if** (*cameraRentMap*.containsKey(searchKey)) {

**double** rent = *cameraRentMap*.get(searchKey);

System.***out***.println("Camera found: " + searchKey + " - Rent: Rs" + rent);

} **else** {

System.***out***.println("Camera not found.");

}

} **else** {

System.***out***.println("Invalid input. Please provide both the brand and model.");

}

System.***out***.println();

}

}