Code: -

```
.mport java.util.ArrayList;
Import java.util.Scanner;
    private String model;
available) {
        return this.username.equals(username) &&
chis.password.equals(password);
```

```
private String password;
private ArrayList<Camera> rentedCameras = new ArrayList<>();
   return walletBalance;
   this.walletBalance = walletBalance;
 private static ArrayList<Camera> cameraList = new ArrayList<>();
private static Admin admin = new Admin();
public static void main(String[] args) {
   initializeCameras();
   welcomepage();
private static void welcomepage()
 Scanner scanner = new Scanner(System.in);
   while (!exit) {
       System.out.println("=========");
       System.out.println("| Welcome to Camera Rental App |");
       System.out.println("1. Admin");
       System.out.println("2. User");
       System.out.print("Enter your choice: ");
       scanner.nextLine(); // Consume newline character
```

```
userLogin(scanner);
                    userMenu(scanner);
                    System.out.println("Invalid choice. Please try
           System.out.print("Do you want to exit the application? (y/n):
           String input = scanner.nextLine();
           exit = input.equalsIgnoreCase("y");
       scanner.close();
        System.out.print("Enter admin username: ");
       String username = scanner.nextLine();
       System.out.print("Enter admin password: ");
       String password = scanner.nextLine();
        if (admin.authenticate(username, password)) {
           System.out.println("Login successful!");
           System.out.println("Invalid username or password. Login
failed!");
           System.exit(0);
        while (!backToMenu) {
           System.out.println("\nAdmin Main Menu");
           System.out.println("1. Add Camera");
           System.out.println("2. Remove Camera");
           System.out.println("3. View All Cameras");
           System.out.println("4. Go to Previous Menu");
           System.out.print("Enter your choice: ");
            int choice = scanner.nextInt();
           scanner.nextLine();
                    removeCamera(scanner);
                    welcomepage();
                    System.out.println("Invalid choice. Please try
again.");
```

```
System.out.print("Enter camera ID: ");
       scanner.nextLine();
       System.out.print("Enter camera brand: ");
       System.out.print("Enter camera model: ");
       System.out.print("Enter camera price: ");
       scanner.nextLine();
       Camera camera = new Camera(id, brand, model, price, true);
       cameraList.add(camera);
       System.out.println("Camera added to the list.");
       System.out.print("Enter camera ID to remove: ");
       int id = scanner.nextInt();
       scanner.nextLine();
       if (cameraToRemove != null) {
          cameraList.remove(cameraToRemove);
           System.out.println("Camera removed from the list.");
           System.out.println("Camera not found in the list.");
       System.out.println("\nAvailable Cameras:");
System.out.println("===========
    ======");
     System.out.println("ID\t\tBrand\t\tModel\t\tPrice\t\t");
     if (camera.isAvailable()) {
              System.out.println(camera.getId()+"\t\t" +
camera.getPrice()+"\t\t" );
```

```
========");
      System.out.println("\nRented Cameras:");
System.out.println("======
    System.out.println("ID\t\tBrand\t\tModel\t\tPrice\t\t");
    ======");
         if (!camera.isAvailable()) {
            System.out.println(camera.getId()+"\t\t" +
    =======");
      System.out.print("Enter username: ");
      String username = scanner.nextLine();
      System.out.print("Enter password: ");
      String password = scanner.nextLine();
      currentUser = new User(username, password);
      System.out.println("Login successful!");
      boolean backToMenu = false;
      while (!backToMenu) {
         System.out.println("\nUser Main Menu");
         System.out.println("1. My Cameras");
         System.out.println("2. Rent a Camera");
         System.out.println("3. View All Cameras");
         System.out.println("4. My Wallet");
         System.out.println("5. Exit");
         System.out.print("Enter your choice: ");
         int choice = scanner.nextInt();
         scanner.nextLine();
                rentCamera(scanner);
```

```
viewmyCameras();
             myWallet(scanner);
              welcomepage();
              System.out.println("Invalid choice. Please try
    System.out.println("ID\t\tBrand\t\tModel\t\tPrice\t\t");
    ========");
        if (camera.isAvailable()) {
          System.out.println(camera.getId()+"\t\t" +
    -----;
     ArrayList<Camera> rentedCameras = currentUser.getRentedCameras();
     if (rentedCameras.isEmpty()) {
        System.out.println("You haven't rented any cameras yet.");
        System.out.println("\nRented Cameras:");
System.out.println("=========
        System.out.println("ID\t\tBrand\t\tModel\t\tPrice\t\t");
    System.out.println(camera.getId()+"\t\t" +
camera.getBrand() +"\t\t" + camera.getModel()+"\t\t" +
camera.getPrice()+"\t\t" );
    ·======");
```

```
System.out.print("Enter camera ID to rent: ");
          int id = scanner.nextInt();
         scanner.nextLine();
                   selectedCamera = camera;
          if (selectedCamera != null) {
               if (walletBalance >= cameraPrice) {
                   System.out.println("Camera rented successfully!");
                   System.out.println("Transaction failed! Insufficient wallet
              System.out.println("Camera not available for rent.");
         System.out.println("Wallet Balance: $" +
currentUser.getWalletBalance());
         System.out.print("Do you want to deposit more amount? (1. Yes / 2.
No): ");
          int choice = scanner.nextInt();
         scanner.nextLine();
              System.out.print("Enter the amount to deposit: $");
              double amount = scanner.nextDouble();
              scanner.nextLine();
              double walletBalance = currentUser.getWalletBalance();
              currentUser.setWalletBalance(walletBalance + amount);
              System.out.println("Amount deposited successfully!");
              System.out.println("Updated Wallet Balance: $" +
currentUser.getWalletBalance());
         cameraList.add(new Camera(1, "Canon", "EOS R5", 250.0, true));
cameraList.add(new Camera(2, "Nikon", "Z7 II", 300.0, true));
cameraList.add(new Camera(3, "Sony", "Alpha", 350.0, true));
cameraList.add(new Camera(4, "Samsung", "DS123", 500.0, true));
         cameraList.add(new Camera(5, "Sony", "HD214", 500.0, true));
cameraList.add(new Camera(6, "Panasonic", "XC", 500.0, true));
```

```
cameraList.add(new Camera(7, "Canon", "XLR", 500.0, true));
cameraList.add(new Camera(8, "Fujitsu", "Is", 500.0, true));
cameraList.add(new Camera(9, "Sony", "HD226", 500.0, true));
cameraList.add(new Camera(10, "LG", "L123", 500.0, true));
cameraList.add(new Camera(11, "Canon", "XPL", 500.0, true));
cameraList.add(new Camera(12, "Chroma", "cT", 500.0, true));
cameraList.add(new Camera(13, "Canon", "Digital", 123.0, true));
cameraList.add(new Camera(14, "NIKON", "DSLR-D7500", 500.0, true));
cameraList.add(new Camera(15, "Sony", "DSLR12", 200.0, true));
cameraList.add(new Camera(16, "SONY", "SONY1234", 123.0, true));
cameraList.add(new Camera(17, "canon", "5050", 25000.0, true));
cameraList.add(new Camera(18, "nikon", "2030", 500.0, true));
cameraList.add(new Camera(20, "Sony", "DS123", 500.0, true));
cameraList.add(new Camera(20, "Sony", "HD214", 500.0, true));
cameraList.add(new Camera(21, "Panasonic", "XC", 500.0, true));
}
```