**CAMERA RENTAL APPLICATION :**

**Algorithm:**

1. Start the application.
2. Initialize the camera list and wallet.
3. Prompt the user to log in with a username and password.
4. Validate the username and password. If invalid, go back to step 3.
5. If the login is successful, display the main menu with options.
6. Based on the user's input, perform the corresponding action:

• If the user selects "MY CAMERA", go to step 7.

• If the user selects "RENT A CAMERA", go to step 8.

• If the user selects "VIEW ALL CAMERAS", go to step 9.

• If the user selects "MY WALLET", go to step 10.

• If the user selects "EXIT", end the application.

1. Handle the "MY CAMERA" functionality:

• Display options: Add, Remove, View My Cameras, Go to Previous Menu.

• Based on the user's input, perform the corresponding action:

• If the user selects "ADD", go to step 11.

• If the user selects "REMOVE", go to step 12.

• If the user selects "VIEW MY CAMERAS", go to step 13.

• If the user selects "GO TO PREVIOUS MENU", go back to step 6.

1. Handle the "RENT A CAMERA" functionality:

• Display the list of available cameras.

• Prompt the user to enter the camera ID to rent.

• If the camera ID is valid, check if the camera is available and the user has sufficient balance in the wallet.

• If both conditions are met, deduct the rental amount from the wallet, mark the camera as rented, and display a success message.

• If any condition fails, display an error message.

• Go back to step 6.

1. Handle the "VIEW ALL CAMERAS" functionality:

• Display the list of all cameras (rented and available).

• Go back to step 6.

1. Handle the "MY WALLET" functionality:

• Display the current wallet balance.

• Prompt the user if they want to deposit more money.

• If yes, prompt for the amount and deposit it into the wallet.

• Go back to step 6.

1. Handle the "ADD" functionality under "MY CAMERA":

• Prompt the user to enter the camera brand, model, and price per day.

• Create a new Camera object with an auto-incremented ID and the provided details.

• Add the camera to the camera list.

• Go back to step 7.

1. Handle the "REMOVE" functionality under "MY CAMERA":

• Display the list of cameras.

• Prompt the user to enter the camera ID to remove.

• Remove the camera with the corresponding ID from the camera list.

• Handle cases where an undesirable value for ID, i.e., other the integer is entered.

• Go back to step 7.

1. Handle the "VIEW MY CAMERAS" functionality under "MY CAMERA":

• Display the list of cameras that are added by the user.

• Go back to step 7.