**ALGORITHM:**

**CAMERA RENTAL APPLICATION:**

* Initialize the required variables, including the currency value and login credentials
* Display a welcome message and prompt the user to enter their username and password.
* Provide 3 attempts to login, if the login credentials are valid, display a success message and proceed. Otherwise, display an authentication failure message.
* Create a list to store camera objects and add some initial camera objects to it.
* Enter a loop to display a menu of options until the user chooses to exit.
* Inside the loop, prompt the user to choose an option.
* Implement a switch case to handle different options selected by the user.
* **Option 1: "MY CAMERA"**

a. Enter a nested loop to display sub-menu options until the user chooses to go back.

b. Implement switch case to handle different sub-menu options.

c. Option 1: Add a new camera to the list by taking input from the user.

d. Option 2: Remove a camera from the list based on the camera ID entered by the user.

e. Option 3: Display the list of available cameras.

f. Option 4: Break the inner loop and go back to the main menu.

* **Option 2: "RENT A CAMERA"**

a. Display the list of available cameras.

b. Prompt the user to enter the camera ID they want to take for rent.

c. Find the camera with the entered ID in the list.

d. If the camera is found and The user has sufficient balance in his Wallet, mark the camera as rented, deduct the price from the user's wallet, and display a success message.

e. If the camera is not found or the user does not have sufficient balance, display an appropriate message.

* **Option 3: "VIEW ALL CAMERAS"**

a. Display the list of all cameras with their details.

* **Option 4: "MY WALLET"**

a. Display the user's current wallet balance.

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

c. If yes, prompt for the deposit amount and update the wallet balance accordingly.

After the switch case, prompt the user if they want to continue using the app.

a. If yes, continue the loop.

b. If no, exit the loop and display a thank you message.

* Display a final thank you message for visiting the camera rental app.