**Algorithm\_For\_Fix\_Bugs\_of\_The\_Application**

1. Display Welcome Message:

- Print a welcome message for the user.

2. Display Options:

- Display a menu with different options for the user.

3. User Input:

- Take user input for the desired option.

4. Option Handling:

- Based on the user's choice, execute the corresponding option.

5. Options Handling Algorithm:

a. Review Expenditure (Option 1):

- Display the list of saved expenses.

b. Add Expenditure (Option 2):

- Prompt the user to enter the value to add.

- Update the list of expenses and display the updated list.

c. Delete Expenditure (Option 3):

- Confirm the deletion.

- If confirmed, clear all expenses; otherwise, show an error message.

d. Sort Expenditures (Option 4):

- Call the sorting method.

- Display the sorted list of expenses.

e. Search Expenditure (Option 5):

- Call the searching method.

- Display whether the expense is found or not.

f. Close Application (Option 6):

- Display closing message and terminate the program.

g. Invalid Choice:

- Display an error message for invalid choices.

6. Sorting Algorithm:

- Convert the ArrayList to an array.

- Use Arrays.sort to sort the array in ascending order.

- Clear the ArrayList and add the sorted elements back.

7. Searching Algorithm:

- Prompt the user to enter the expense to search.

- Use the contains method to check if the entered expense exists in the ArrayList.

- Display whether the expense is found or not.

8. Close Application:

- Display a closing message and terminate the program.