

## Source Code of Practice project:Fixing the bugs

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package PracticeProject;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;

public class D {
    public static void main(String[] args) {
        System.out.println("\n*****\n");
        System.out.println("\tWelcome to TheDesk \n");
        System.out.println("*****");
        optionsSelection();
    }

    private static void optionsSelection() {
        String[] arr = {"1. I wish to review my expenditure",
            "2. I wish to add my expenditure",
            "3. I wish to delete my expenditure",
            "4. I wish to sort the expenditures",
            "5. I wish to search for a particular expenditure",
            "6. Close the application"
        };
        int[] arr1 = {1, 2, 3, 4, 5, 6};
        int slen = arr1.length;
        for (int i = 0; i < slen; i++) {
            System.out.println(arr[i]);
        }
        ArrayList<Integer> expenses = new ArrayList<Integer>();
        expenses.add(1000);
        expenses.add(2300);
        expenses.add(45000);
        expenses.add(32000);
        expenses.add(110);
        System.out.println("\nEnter your choice:\t");
        Scanner sc = new Scanner(System.in);
        int options = sc.nextInt();
        if (options >= 1 && options <= 6) {
            switch (options) {
                case 1:
                    System.out.println("Your saved expenses are listed
below: \n");

                    System.out.println(expenses + "\n");
                    optionsSelection();
                    break;
                case 2:
                    System.out.println("Enter the value to add your
Expense: \n");

                    int value = sc.nextInt();
                    expenses.add(value);
                    System.out.println("Your value is updated\n");
                    System.out.println(expenses + "\n");
                    optionsSelection();
                    break;
                case 3:
                    System.out.println("You are about to delete all
your expenses! \nConfirm again by selecting the same option...\n");
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        int con_choice = sc.nextInt();
        if (con_choice == options) {
            expenses.clear();
            System.out.println(expenses + "\n");
            System.out.println("All your expenses are
erased!\n");
        } else {
            System.out.println("Oops... try again!");
        }
        optionsSelection();
        break;
    case 4:
        sortExpenses(expenses);
        optionsSelection();
        break;
    case 5:
        searchExpenses(expenses);
        optionsSelection();
        break;
    case 6:
        closeApp();
        break;
    }
} else {
    System.out.println("You have made an invalid choice!");
    optionsSelection();
}
}

private static void closeApp() {
    System.out.println("Closing your application... \nThank you!");
}

private static void searchExpenses(ArrayList<Integer> arrayList) {
    int leng = arrayList.size();
    System.out.println("Enter the expense you need to search:\t");
    Scanner scanner = new Scanner(System.in);
    int expenseToSearch = scanner.nextInt();
    boolean found = false;
    for (int i = 0; i < leng; i++) {
        if (arrayList.get(i) == expenseToSearch) {
            found = true;
            break;
        }
    }
    if (found) {
        System.out.println("Expense found in the list.");
    } else {
        System.out.println("Expense not found in the list.");
    }
}

private static void sortExpenses(ArrayList<Integer> arrayList) {
    int arrLength = arrayList.size();
    Collections.sort(arrayList);
    System.out.println("Expenses sorted in ascending order: " +
arrayList);
}

```

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}  
}
```

Git hub repository link : <https://github.com/AmaraJyothi10/Java-fsd.git>