## SourceCode:

```
□ 🔬 BugFix.java ×
                                                                                                                                                                                                                                                                                                   - 0
                18 import java.util.ArrayList;
2 import java.util.Scanner;
                 public class BugFix {
                            }
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 ing; isslen;++){
    System.out.println(arr[i]);
    // display the all the Strings mentioned in the String array
    ArrayList<Integer>();
                                   }
ArrayList<Integer> arrlist = new ArrayList<Integer>();
ArrayList<Integer> expenses = new ArrayList<Integer>();
expenses.add(1000);
                                    expenses.add(2300);
expenses.add(45000);
                                    expenses.add(32000);
                                   System.out.println("Your saved expenses are listed below: \n");
System.out.println(expenses+"\n");
optionsSelection();
                                                           break;
case 2;
                                                                  e 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");
expenses.addAll(arrlist);
System.out.println(expenses+"\n");
expenses.addAll(arrlist);
                                                                   optionsSelection();
                                                                   System.out.println("You are about the delete all your expenses! \nConfirm again by selecting the same option...\n"); >
```

```
System.out.println("Your value is updated\n");
expenses.addAll(arrlist);
System.out.println(expenses+"\n");
optionsSelection();
break;
case 3:
System.out.println("You are about the delete a int con_choice = sc.nextInt();
if(con_choice=sc.lear();
Expenses.clear();
System.out.println(expenses+"\n");
System.out.println(expenses+"\n");
System.out.println("All your expenses are } else {
System.out.println("All your expenses are } else {
System.out.println("Oops... try again!");
OptionsSelection();
break;
case 4:
sortExpenses(expenses);
optionsSelection();
break;
case 5:
searchExpenses(expenses);
optionsSelection();
break;
case 5:
searchExpenses(expenses);
optionsSelection();
break;
case 6:
closeApp();
break;
default:
System.out.println("You have made an invalid c break;
}
}

private static void closeApp() {
System.out.println("Closing your application... \nThank you!")
Find the private static void searchExpenses(ArrayListxInteger> arrayList) {
Scanner scrnew Scanner(System.in);
int leng = arrayList.size();
System.out.println("Enter the expense you need to search:\t");
int exp=sc.nextInt();
break;
system.out.println("The list contains" +exp);
else
System.out.println("The list does not contains"+exp);
if (check)
System.out.println("The list does not contains"+exp);
private static void sortExpenses(ArrayListxInteger> arrayList) {
int arrlength = arrayList.size();
System.out.println("The list does not contains"+exp);
private static void sortExpenses(ArrayListxInteger> arrayList) {
int arrlength = arrayList.size();
System.out.println("The list does not contains"+exp);
private static void sortExpenses(ArrayListxInteger> arrayList) {
int arrlength = arrayList.size();
System.out.println("After Sorting: "+ arrayList);
}

System.out.println("After Sorting: "+ arrayList);
}
                                                                                                                                                                              System.out.println("Your value is updated\n");
expenses.addAll(arrlist);
System.out.println(expenses="\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ^ · ·
                                                                                                                                                                        se 3:
System.out.println("You are about the delete all your expenses! \nConfirm again by selecting the same option...\n");
int con_choice = sc.nextInt();
if(con_choice==options){
        expenses.clear();
        System.out.println(expenses+"\n");
        System.out.println(expenses+"\n");
        System.out.println("All your expenses are erased!\n");
} else {
        System.out.println("Oops... try again!");
}
                                                                                                                                                                           System.out.println("You have made an invalid choice!");
break;
                                                                 }
private static void closeApp() {
   System.out.println("Closing your application... \nThank you!");
                                                                  private static void searchExpenses(ArrayList<Integer> arrayList) {
                                                                                     vate statit wou bearintspaces(in/a);
Scanner scenew Scanner(System.in);
int legg = arrayList.size();
System.out.println("Enter the expense you need to search:\t");
int expense.nextInt();
boolean check = arrayList.contains(exp);
                   108 }
```

## **Output:**

