Source code:

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
public class Fixbugs{
	public static void main(String[]args) {

		System.out.println("\n ------------------------ \n");
		System.out.println("\nWelcome \n");
		System.out.println("\n ------------------------ \n");
		optionsSelection();
	}
	private static void optionsSelection() {
		String[]arr= {"1.add expenditure",
				"2.review the expenditure",
				"3.sort the expenditure",
				"4.search the exact expenditure",
				"5.delete expenditure",
				"6.Close 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> arrlist=new ArrayList<Integer>();
		ArrayList<Integer> expenses=new ArrayList<Integer>();
		expenses.add(3000);
		expenses.add(1300);
		expenses.add(5000);
		expenses.addAll(arrlist);
		System.out.println("\nEnter choice:\t");
		Scanner sc=new Scanner(System.in);
		int options=sc.nextInt();
		for(int j=1;j<=slen;j++) {
			if(options==j) {
				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
Expenses:\n");
					int value=sc.nextInt();
					expenses.add(value);
					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 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("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;
                                        default:
                                                System.out.println("You have made an invalid
choice!");
                                                break;
                                }
                        }
                }
        }
        private static void closeApp() {
                System.out.println("Closing application...\nThank you");
        }


        private static void searchExpenses(ArrayList<Integer>arrayList) {
                int leng=arrayList.size();


                Scanner sc=new Scanner(System.in);
                System.out.println("Enter the expenses to search:\t");
                int expensesToSearch=sc.nextInt();

                if(arrayList.contains(expensesToSearch)) {
                        System.out.println("Expenses not found!");
```

```
                }else {
                        System.out.println("Expenses not found!");
                }
        }

        private static void sortExpenses(ArrayList<Integer>arrayList) {
                int arrlength=arrayList.size();

                Collections.sort(arrayList);
                System.out.println("Expenses sorted in ascending order:"+arrayList);

        }
}
```