

Package Explorer

- BugFix1
  - JRE System Library [JavaSE-17]
  - src
    - (default package)
      - BugFix.java
- Calcuatoresx
  - JRE System Library [JavaSE-17]
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    - BasicConcepts
      - Calculator1.java
    - package-info.java
- Filehandling
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      - Demo.java
- Project1
- Validation
- Validation1

Validation.java

```
1 import java.util.ArrayList;
2 import java.util.Collections;
3 import java.util.Scanner;
4
5 public class BugFix {
6     public static void main(String[] args) {
7
8         System.out.println("\tWelcome to TheDesk \n");
9         System.out.println("*****");
10        optionsSelection();
11    }
12
13
14    private static void optionsSelection() {
15        String[] arr = { "1. review my expenditure", "2. add my expenditure",
16                        "4. sort the expenditures", "5. search for a particular expenditure" };
17        int[] arr1 = { 1, 2, 3, 4, 5, 6 };
18        int slen = arr1.length;
19        for (int i = 0; i < slen; i++) {
20            System.out.println(arr[i]);
21            // display the all the Strings mentioned in the String array
22        }
23        ArrayList<Integer> arrlist = new ArrayList<Integer>();
24        ArrayList<Integer> expenses = new ArrayList<Integer>();
25        expenses.add(1000);
26        expenses.add(2300);
27        expenses.add(45000);
28        expenses.add(32000);
29        expenses.add(110);
30        expenses.addAll(arrlist);
31        System.out.println("\nEnter your choice:\t");
32        Scanner sc = new Scanner(System.in);
33        int options = sc.nextInt();
34        for (int j = 1; j <= slen; j++) {
35            if (options == j) {
36                switch (options) {
37                    case 1:
38                        System.out.println("Your saved expenses are listed below: \n");
39                        System.out.println(expenses + "\n");
40                        optionsSelection();
41                        break;
42                    case 2:
43                        System.out.println("Enter the value to add your Expense: \n");
44                        int value = sc.nextInt();
```

Javadoc Declaration Console

BugFix [Java Application] C:\Users\hp\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jr...

Welcome to TheDesk

\*\*\*\*\*

1. review my expenditure
2. add my expenditure
3. delete my expenditure
4. sort the expenditures
5. search for a particular expenditure
6. Close the application

Enter your choice:



Package Explorer X

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```
40         optionsSelection();
41         break;
42     case 2:
43         System.out.println("Enter the value to add your Expense: \n");
44         int value = sc.nextInt();
45         expenses.add(value);
46         System.out.println("Your value is updated\n");
47         expenses.addAll(arrlist);
48         System.out.println(expenses + "\n");
49         optionsSelection();
50
51         break;
52     case 3:
53         System.out.println(
54             "You are about the delete all your expenses! \nConfirm again by selecting the same option...\n");
55         int con_choice = sc.nextInt();
56         if (con_choice == options) {
57             expenses.clear();
58             System.out.println(expenses + "\n");
59             System.out.println("All your expenses are erased!\n");
60         } else {
61             System.out.println("Oops... try again!");
62         }
63         optionsSelection();
64         break;
65     case 4:
66         sortExpenses(expenses);
67         optionsSelection();
68         break;
69     case 5:
70         searchExpenses(expenses);
71         optionsSelection();
72         break;
73     case 6:
74         closeApp();
75         break;
76     default:
77         System.out.println("You have made an invalid choice!");
78         break;
79     }
80 }
81 }
82
83 ,
```

Writable

Smart Insert

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Package Explorer ×

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```
78         break;
79     }
80     }
81 }
82
83
84
85 private static void closeApp() {
86     System.out.println("Closing your application... \nThank you!");
87 }
88
89 private static void searchExpenses(ArrayList<Integer> arrayList) {
90     int leng = arrayList.size();
91     System.out.println("Enter the expense you need to search:\n");
92     //
93     Scanner sc = new Scanner(System.in);
94     int input = sc.nextInt();
95     // Linear Search
96     for (int i = 0; i < leng; i++) {
97         if (arrayList.get(i) == input) {
98             System.out.println("Found the expense " + input + " at " + i + " position");
99         }
100     }
101 }
102
103 private static void sortExpenses(ArrayList<Integer> arrayList) {
104     int arrlength = arrayList.size();
105     // Complete the method. The expenses should be sorted in ascending order.
106
107     Collections.sort(arrayList);
108     System.out.println("Sorted expenses: ");
109     for (Integer i : arrayList) {
110         System.out.print(i + " ");
111     }
112
113     System.out.println("\n");
114 }
115 }
116 }
117 // TODO Auto-generated method stub
118
119
120
121
```

Writable

Smart Insert

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