

File Handling

Introduction:

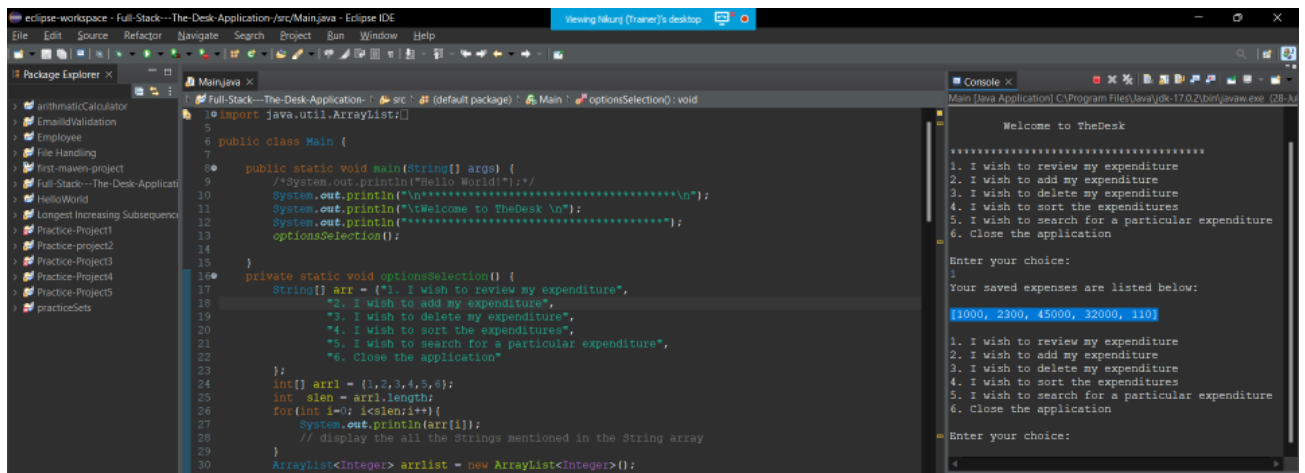
This is an The-Desk-Application App. In this app user can add, delete, sort, search the expenditure. Fixed some bugs in search method and in sort method.

Installation Guide:

1. GitHub link: <https://github.com/baljeet-singh97/The-Desk-Application>
2. Download the entire project as Zip in local system.
3. import the project in **Eclipse IDE**

How to use:

1. After running the code you will see the window like:



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists several projects, including 'Full-Stack---The-Desk-Application'. The Main.java file is open in the editor, showing the following code:

```
1 import java.util.ArrayList;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         //System.out.println("Hello World!");
7         System.out.println("*****\n");
8         System.out.println("Welcome to TheDesk\n");
9         optionsSelection();
10    }
11
12    private static void optionsSelection() {
13        String[] arr = {"1. I wish to review my expenditure",
14                        "2. I wish to add my expenditure",
15                        "3. I wish to delete my expenditure",
16                        "4. I wish to sort the expenditures",
17                        "5. I wish to search for a particular expenditure",
18                        "6. Close the application"};
19
20        int[] arr1 = {1,2,3,4,5,6};
21        int len = arr1.length;
22        for(int i=0; i<len;i++){
23            System.out.println(arr[i]);
24            // display the all the Strings mentioned in the String array
25        }
26        ArrayList<Integer> arrlist = new ArrayList<Integer>();
27    }
28
29 }
```

The Console window on the right shows the output of the program:

```
Welcome to TheDesk
*****
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

Enter your choice:
1
Your saved expenses are listed below:
1000, 2300, 45000, 32000, 110

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

Enter your choice:
4
```

2. Select an option (for eg: 1). Then program will print all the expenditure data on the screen as shown in below image

```
Main [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (28-Jul)

Welcome to TheDesk

*****
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

Enter your choice:
1
Your saved expenses are listed below:
[1000, 2300, 45000, 32000, 110]
```

Bug Fixed:-→

1. Search Expences

Used scanner class to take input from the user.

Taking input in variable 'key' from the user as we need to search the key in the data

```
Int key = sc.nextInt();
```

ArrayList contains() method in Java is used for checking if the specified element exists in the given list or not.

It returns true if the specified element is found in the list else it returns false.

```
If(arrayList.contains(key))
```

```
System.out.println("yes it contains " + key);
```

2. Sort Expences:->

java.util.Collections.sort() method is present in java.util.Collections class. It is used to sort the elements present in the specified list of Collection in ascending order.

It works similar to java.util.Arrays.sort() method but it is better then as it can sort the elements of Array as well as linked list, queue and many more present in it.

```
Collections.sort(arrayList);
```

```
System.out.println(arrayList);
```