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## 

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## GitHUb Link

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| --- | --- |
| **Repository name** | [Simplilearn-phase-1](https://github.com/musthaqmd/Simplilearn-phase-1) |
| **Repository Link** | <https://github.com/musthaqmd/Simplilearn-phase-1.git> |
| **Folder name** | **Practice Programs ---> Bug fix of the application** |

## 2. Main .java

// Fix Bugs of the Application

**package** FixBugsOfTheApplication;

**import** java.util.ArrayList;

**import** java.util.Collections;

**import** java.util.Scanner;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

//Add "Hello World" to the greeting message and menu.

System.***out***.println();

System.***out***.println("\tHello World! \n");

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]);

//Display all the Strings mentioned in the String array.

}

ArrayList<Integer> arrlist = **new** ArrayList<Integer>();

ArrayList<Integer> expenses = **new** ArrayList<Integer>();

expenses.add(1000);

expenses.add(2300);

expenses.add(45000);

expenses.add(32000);

expenses.add(110);

expenses.addAll(arrlist);

System.***out***.println("\nEnter your 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 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");

*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 your application... \nThank you!");

}

// method has been added to search particular expense in arraylist

**private** **static** **void** searchExpenses(ArrayList<Integer> arrayList) {

**int** leng = arrayList.size();

System.***out***.println("Enter the expense you need to search:\t");

Scanner sc = **new** Scanner(System.***in***);

**int** expense = sc.nextInt();

**for** (**int** i = 0; i < leng; i++) {

**if** (arrayList.get(i) == expense) {

System.***out***.println("Found the expense " + expense + " at " + i + " position");

}

}

}

//method has been added to sort the expenses in ascending order

**private** **static** **void** sortExpenses(ArrayList<Integer> arrayList) {

**int** arrlength = arrayList.size();

Collections.*sort*(arrayList);

System.***out***.println("Your sorted expenses in an ascending order:");

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

System.***out***.println();

}

}