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package com;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
public class BugFix {
public static void main(String[] args) {
 // TODO Auto-generated method stub
 System.out.println("\n*********\n"):
     System.out.println("\tWelcome to The Desk \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]);
     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 \le 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();
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break;
             case 3:
                System.out.println("You are about the delete all your expenses! \nConfirm again by selecting the sa
me 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!");
   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 input = sc.nextInt();
     for(int i=0;i < leng; i++) {
      if(arrayList.get(i)==input) {
       System.out.println("Found the expense " + input + " at " + i + " position");
      }
   private static void sortExpenses(ArrayList<Integer> arrayList) {
     int arrlength = arrayList.size();
     Collections.sort(arrayList);
     System.out.println("Sorted expenses: ");
     for(Integer i: arrayList) {
      System.out.print(i + " ");
```

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System.out.println("\n");
}
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