|  |
| --- |
| package com.practiseProject; |
|  |  |
|  | import java.util.ArrayList; |
|  | import java.util.Collections; |
|  | import java.util.Scanner; |
|  |  |
|  |  |
|  | public class BugFixCode { |
|  |  |
|  | public static void main(String[] args) { |
|  |  |
|  | System.out.println("\tWelcome to Sorting and Searching World \n"); |
|  | choiceSelection(); |
|  |  |
|  | } |
|  |  |
|  | private static void choiceSelection() { |
|  | 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(100); |
|  | expenses.add(5000); |
|  | expenses.add(500000); |
|  | expenses.add(1245); |
|  | 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"); |
|  | choiceSelection(); |
|  | 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"); |
|  | choiceSelection(); |
|  | 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!"); |
|  | } |
|  | choiceSelection(); |
|  | break; |
|  |  |
|  | case 4: |
|  | sortExpenses(expenses); |
|  | choiceSelection(); |
|  | break; |
|  |  |
|  | case 5: |
|  | searchExpenses(expenses); |
|  | choiceSelection(); |
|  | 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 + " "); |
|  | } |
|  |  |
|  | System.out.println("\n"); |
|  | } |
|  | } |