import java.util.ArrayList;

import java.util.Collections;

import java.util.Scanner;

public class Main2 {

public static void main(String[] args) {

/\*System.out.println("Hello World!");\*/

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 to 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!");

}

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

int leng = arrayList.size();

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

//Complete the method

Scanner sc = new Scanner(System.in);

int searchExpense = sc.nextInt();

boolean found = false;

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

if (arrayList.get(i) == searchExpense) {

System.out.println("Expense found at index " + i);

found = true;

System.out.println();

}

}

if (!found) {

System.out.println("Expense not found.");

System.out.println();

}

}

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

int arrlength = arrayList.size();

//Complete the method. The expenses should be sorted in ascending order.

Collections.sort(arrayList);

System.out.println("Expenses sorted in ascending order: " + arrayList);

System.out.println();

}

}