package Practice\_Project;

import java.util.ArrayList;

import java.util.Collections;

import java.util.Scanner;

public class Fix\_Bugs\_Project {

public static void main(String[] args) {

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

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

System.out.println("\t WELCOME 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]);

// display the all the Strings mentioned in the String array

}

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

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

expenses.add(100);

expenses.add(250);

expenses.add(400);

expenses.add(350);

expenses.add(220);

expenses.addAll(arrlist);

System.out.println("\nENTER YOUR CHOICE :\t");

@SuppressWarnings("resource")

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 EXPENCES Are Listed Below: \n");

System.out.println(expenses+ "\n");

optionsSelection();

break;

case 2:

System.out.println("Enter The Values to Add Your EXPENCE: \n");

int value = sc.nextInt();

expenses.add(value);

System.out.println("Your values are UPDATED\n");

expenses.addAll(arrlist);

System.out.println(expenses+ "\n");

optionsSelection();

break;

case 3:

System.out.println("You are about the delete all your EXPENCES!! \n Confirm 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 EXPENCES are Erased!\n");

} else {

System.out.println("Somthing went to Wrong..... 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 EXPENCES You Need to Search:\t");

//

@SuppressWarnings("resource")

Scanner sc = new Scanner(System.in);

int input = sc.nextInt();

//Linear Search

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

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

System.out.println("Found the EXPENCE " + input + " at " + i + " Position");

}

}

}

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

@SuppressWarnings("unused")

int arrlength = arrayList.size();

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

Collections.sort(arrayList);

System.out.println("Sorted EXPENCES: ");

for(Integer i: arrayList) {

System.out.print(i + " ");

}

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

}

}