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import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
public class Main {
    public static void main(String[] args)
    {
        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"
        };

        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);
        arrlist.addAll(expenses);

        Scanner sc = new Scanner(System.in);

        while(true)
        {
            int slen = arr.length;
            for(int i=0; i<slen;i++)
            {
                System.out.println(arr[i]);
                // display the all the Strings mentioned in the String
array
            }

            System.out.println("\nEnter your choice:\t");

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int options = sc.nextInt();

switch (options)
{
    case 1:
        System.out.println("Your saved expenses are listed
below: \n");

        System.out.println(expenses+"\n");
        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");
        System.out.println(expenses+"\n");
        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!");
        }
        break;
    case 4:
        sortExpenses(expenses);
        break;
    case 5:
        searchExpenses(expenses);
        break;
    case 6:
        closeApp();
        break;
    default:
        System.out.println("You have made an invalid choice!");
}
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        break;
    }
}
//sc.close();
}
private static void closeApp()
{
    System.out.println("Closing your application... \nThank you!");
    System.exit(0);
}
private static void searchExpenses(ArrayList<Integer> arrayList)
{
    System.out.println("Enter the expense you need to search:\t");
    Scanner scanner = new Scanner(System.in);
    int val = scanner.nextInt();
    int flag=0;
    for(int i : arrayList)
    {
        if(i==val)
        {
            System.out.println("The expense is found.\n");
            flag=1;
            break;
        }
    }
    if(flag==0)
    {
        System.out.println("The expense is not found.\n");
    }
    //scanner.close();
}
private static void sortExpenses(ArrayList<Integer> arrayList)
{
    Collections.sort(arrayList);
    System.out.println("Expences sorted in ascending order: ");
    System.out.println(arrayList+"\n");
}
}

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