```
package javapract;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
public class P1S4P1 {
       public static void main(String[] args) {
    System.out.println("\n************************\n");
    System.out.println("\tWelcome to TheDesk \n");
    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 slen = arr.length;
    for (String s : arr) {
     System.out.println(s);
   }
    ArrayList<Integer> expenses = new ArrayList<>();
    expenses.add(1000);
    expenses.add(2300);
    expenses.add(45000);
    expenses.add(32000);
```

```
expenses.add(110);
    System.out.println("\nEnter your choice:\t");
    Scanner sc = new Scanner(System.in);
    int options = sc.nextInt();
    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");
         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) {
  Scanner sc = new Scanner(System.in);
  int leng = arrayList.size();
  System.out.println("Enter the expense you need to search:\t");
  int searchItem = sc.nextInt();
  if (arrayList.contains(searchItem)) {
    System.out.println("Expense found: " + searchItem);
  } else {
    System.out.println("Expense not found");
  }
```

```
private static void sortExpenses(ArrayList<Integer> arrayList) {
    Collections.sort(arrayList);
    System.out.println("Expenses sorted in ascending order: " + arrayList);
}
```