**package** lesson05.task520;  
  
**import** java.util.ArrayList;  
**import** java.util.Collections;  
**import** java.util.Scanner;  
  
**public class** ExpansesHandler{  
  
 **public static** Scanner *sc*=**new** Scanner(System.***in***);  
  
 *//added class variable* **private** ArrayList<Integer> **expenses**;  
  
 *//added constructor* **public** ExpansesHandler() {  
 **this**.**expenses** = **new** ArrayList<>();  
 }  
  
 *//added method* **public void** readExpensesFromArray(Integer[] source){  
 *//in future we can read expenses from different sources* Collections.*addAll*(**expenses**,source);  
 }  
  
 *//added method* **public void** printExpenses(){  
 System.***out***.println(**expenses**+**"\n"**);  
 }  
  
 *//added method* **public void** addExpenditure(**int** value) {  
 **expenses**.add(value);  
 }  
  
 *//added method* **public void** deleteExpenditures() {  
  
  
 System.***out***.println(**"You are about the delete all your expenses! \nConfirm again by selecting \'y\' ...\n"**);  
 String con\_choice = *sc*.next();  
 **if** (con\_choice.equals(**"y"**)) {  
 **expenses**.clear();  
 System.***out***.println(**"All your expenses are erased!\n"**);  
 } **else** {  
 System.***out***.println(**"Oops... try again!"**);  
 }  
 }  
  
  
 **public boolean** isExpenseFounded(**int** searchingExpense) {  
 **return expenses**.contains(searchingExpense);  
 }  
  
  
 **private void** sortExpenses() {  
 Collections.*sort*(**expenses**);  
 }  
  
  
 **public static void** main(String[] args) **throws** InterruptedException{  
  
  
 */\*System.out.println("Hello World!");\*/* System.***out***.println(**"\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n"**);  
 System.***out***.println(**"\tWelcome to TheDesk \n"**);  
 System.***out***.println(**"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"**);  
  
  
 ExpansesHandler expansesHandler=**new** ExpansesHandler();  
 *//in future we can read expenses from different sources* expansesHandler.readExpensesFromArray(**new** Integer[]{1000,2300,4500,32000,110});  
  
 *//add main loop* **int** options=0;  
  
 **while** (**true**){  
  
 System.***out***.println(  
 **"1. I wish to review my expenditure ,\n"** +  
 **"2. I wish to add my expenditure,\n"** +  
 **"3. I wish to delete my expenditure,\n"** +  
 **"4. I wish to sort the expenditures,\n"** +  
 **"5. I wish to search for a particular expenditure,\n"** +  
 **"6. Close the application \n"** +  
 **"\nEnter your choice:\t"**);  
  
 options=*sc*.nextInt();  
  
 **if** (options==6) {  
 System.***out***.println(**"Closing your application... \nThank you!"**);  
 **break**;  
 }  
  
 **switch** (options){  
 **case** 1:  
 System.***out***.println(**"Your saved expenses are listed below: \n"**);  
 expansesHandler.printExpenses();  
 **break**;  
 **case** 2:  
 System.***out***.println(**"Enter the value to add your Expense: \n"**);  
 expansesHandler.addExpenditure(*sc*.nextInt());  
 System.***out***.println(**"Your value is updated\n"**);  
 expansesHandler.printExpenses();  
 **break**;  
 **case** 3:  
 expansesHandler.deleteExpenditures();  
 **break**;  
 **case** 4:  
 expansesHandler.sortExpenses();  
 System.***out***.println(**"Your expenses sorted in ascending order: \n"**);  
 expansesHandler.printExpenses();  
 **break**;  
 **case** 5:  
 **if** (expansesHandler.isExpenseFounded(*sc*.nextInt()))  
 System.***out***.println(**"Expense found \n"**);  
 **else** System.***out***.println(**"Expense not found \n"**);  
 **break**;  
 **default**:  
 System.***out***.println(**"You have made an invalid choice!"**);  
 **break**;  
 }  
  
 Thread.*sleep*(1000);  
  
 }  
  
 }  
  
  
}