```java
package Practiseproject;


import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Scanner;

public class BugFix {
    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[] arrl = {1,2,3,4,5,6};
        int  slen = arrl.length;
        for(int i=0; i<slen;i++){
            System.out.println(arr[i]);
```

```java
,
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;
```

```java
case 3:
    System.out.println("You are about the delete all your expenses! \nConfirm again by select
    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;
        }
    }
}
}
```

```java
    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");
        //
        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 expense " + input + " at " + i + " position");
            }
        }
    }
    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("Sorted expenses: ");
        for(Integer i: arrayList) {
            System.out.print(i + " ");
        }
        System.out.println("\n");
    }
}
```

```
Hello World!

* * * * * * * * * * * *

        Welcome to TheDesk

* * * * * * * * * * * *
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

Enter your choice:
2
Enter the value to add your Expense:

500
Your value is updated

[1000, 2300, 45000, 32000, 110, 500]

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
```