```
package com.oops;
import java.util.*;
public class Assign_5 {
     public static void main(String[] args) {
           System.out.println("\tWelcome to TheApp \n");
           System.out.println("-----");
           Selection();
          }
          private static void Selection() {
           String[] arr = {"1. I want to review my expenditure",
           "2. I want to add my expenditure",
           "3. I want to delete my expenditure",
           "4. I want to sort the expenditures",
           "5. I want 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++)</pre>
           System.out.println(arr[i]);
          }
          ArrayList<Integer> arrlist = new ArrayList<Integer>();
          ArrayList<Integer> expenses = new ArrayList<Integer>();
          expenses.add(1500);
          expenses.add(3500);
          expenses.add(7800);
          expenses.add(92000);
          expenses.add(6500);
          expenses.addAll(arrlist);
          System.out.println("\nEnter your choice:\t");
          Scanner \underline{sc} = \mathbf{new} \text{ Scanner}(\text{System.} \mathbf{in});
          int options = sc.nextInt();
          for(int j=1;j<=slen;j++)
          {
          if(options==j)
             switch (options){
             case 1:
             System.out.println("Expenses are listed below: \n");
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System.out.println(expenses+"\n");
             Selection();
             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");
             Selection();
             break;
             case 3:
             System. out. println ("You are about the delete your expense!
\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!");
           Selection();
             break;
             case 4:
             sortExpenses(expenses);
             Selection();
             break;
             case 5:
             searchExpenses(expenses);
             Selection();
             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 expense you need to search:\t");
Scanner sc = new Scanner(System.in);
int search = sc.nextInt();
int index = 0;
for (int i = 0; i < arrayList.size(); i++)
  if (arrayList.get(i) == search) {
  index = i;
}
}
  if (index == 0)
  System.out.println("Value not found in the list");
  else
  System.out.println("Value found at index " + index);
}
private static void sortExpenses(ArrayList<Integer> arrayList) {
int arrlength = arrayList.size();
int temp = 0;
int temp1 = 0;
for (int i = 0; i < arrlength; i++)
for (int j = 1; j < (arrlength - i); j++)
if (arrayList.get(j-1) > arrayList.get(j))
temp = arrayList.get(j-1);
temp1 = arrayList.get(j);
arrayList.set(j,temp);
arrayList.set(j-1,temp1);
}
}
```

```
}
System.out.println("Expenses are sorted in ascending order:\n");
System.out.println(arrayList);
System.out.println();
}
}
```