**Writeup :-**

For this **SearchExpenses** Function :-

* we first took input which is the **target** to search in the array.
* Then we apply **linear search** to **search** target element.
* **If found** Print the index and **if not found** print not found

**private static void searchExpenses(ArrayList<Integer> arrayList) {**

**int leng = arrayList.size();**

**System.*out*.println("Enter the expense you need to search:");**

**Scanner sc = new Scanner(System.*in*);**

**int expenseToSearch = sc.nextInt();**

**boolean found = false;**

**for (int i = 0; i < leng; i++) {**

**if (arrayList.get(i) == expenseToSearch) {**

**System.*out*.println("Expense found at index " + i);**

**found = true;**

**break;**

**}**

**}**

**if (!found) {**

**System.*out*.println("Expense not found");**

**}**

**}**

For this **SortExpenses** Function :-

* First we **don’t** **change** the **original array** we store the original array in **new array**.
* Then we apply **Arrays.sort** function. A **predefined** function in **Arrays** Class.
* Then we print the **array** using another **predefined** function **Arrays.toString.**

**private static void sortExpenses(ArrayList<Integer> arrayList) {**

**int arrlength = arrayList.size();**

**int[] expensesArray = new int[arrlength];**

**for (int i = 0; i < arrlength; i++) {**

**expensesArray[i] = arrayList.get(i);**

**}**

**Arrays.*sort*(expensesArray);**

**System.*out*.println("Sorted expenses in ascending order:\n");**

**System.*out*.println(Arrays.*toString*(expensesArray));**

**System.*out*.println();**

**}**