

Completing the incompleted code involves implementing the **searchExpenses** and **sortExpenses** methods. Below is a step-by-step process and **Source Code**

1. Implement searchExpenses method:

```
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 expenseToSearch = sc.nextInt();  
    boolean found = false;  
  
    for (int i = 0; i < leng; i++) {  
        if (arrayList.get(i) == expenseToSearch) {  
            found = true;  
            System.out.println("Expense found at index " + i);  
        }  
    }  
    if (!found) {  
        System.out.println("Expense not found in the list.");  
    }  
}
```

- This method takes an ArrayList of expenses as a parameter.
- It prompts the user to enter the expense they want to search for.
- It then iterates through the ArrayList, checking if the entered expense matches any expense in the list.
- If a match is found, it prints the index of the expense in the list. If no match is found, it informs the user that the expense was not found.

2.Implement sortExpenses method:(By using inbuilt method)

```
private static void sortExpenses(ArrayList<Integer> arrayList)
{
    int arrlength = arrayList.size();
    Collections.sort(arrayList); // Sort the expenses in ascending order.
    System.out.println("Expenses sorted in ascending order: " + arrayList);
}
```

- This method takes an ArrayList of expenses as a parameter.
- It uses Collections.sort to sort the expenses in ascending order.
- It then prints the sorted list of expenses.

I had pushed the Updated Code to git below is the URL link

<https://github.com/R-NandaKumar/Java-Fsd>

(press ctrl + click)