Algorithm

Step 1 : open the eclipse editor

Step 2 : from the code provided , which is filled with bugs, initially we write the sort and search algorithms.

Step 3 : sorting the array list elements of expenses and searching the whether the expense is present or not.

Step 4 : all these operations are done with the help of a switch case and do while loop.

Step 5 : required output is obtained by selecting from one of the 6 options provided.

Step 6 : verify the obtained and by choosing the option 6 , the program will get exit.