DESCRIPTION

Project objective:

As a developer, fix the bugs in the application using the appropriate algorithmic techniques.

Background of the problem statement:

Solving the bugs raised by the testing team is one among them. You are given the boilerplate code and are asked to complete it by fixing the bugs.

Bugs to be fixed:

Add the missing source code to the application based on searching technique. Find the appropriate comments to code for the searching technique.

Write source code for sorting the predefined array and ensure the functionality of the application. Find the appropriate comments to code for sorting the predefined array.

You can download the boilerplate code by executing the command below in your git bash.

git clone https://github.com/Simplilearn-Edu/Full-Stack---The-Desk-Application-.git

used the following:

Eclipse/IntelliJ: An IDE to code for the application

Java: A programming language to develop the prototype

Git: To connect and push files from local system to GitHub

GitHub: To store the application code and track its versions

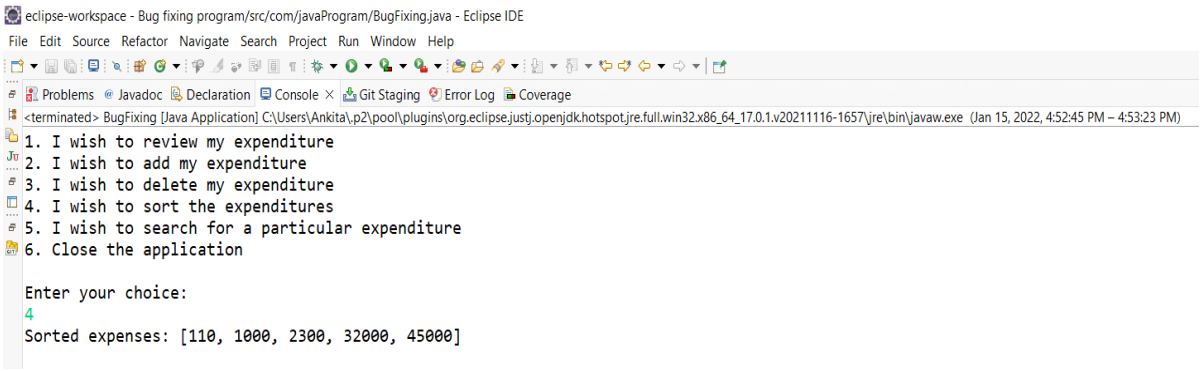
Search and Sort techniques: Select the relevant data structure algorithms to fix the bugs

Sorting expenditure code:

```
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: "+ arrayList);
              System.out.println("\n");

          }
```

output:



Searching expenditure code:

```
private static void searchExpenses(ArrayList<Integer> arrayList) {
             int leng = arrayList.size();
             System.out.println("Enter the expense you want to
```

```
search:\t");
                int flag=0;
                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 + "th position \n");
                         flag=1;
                         break;

                   }
                }
```

Ouput:

```
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:
5
Enter the expense you want to search:
110
Found the expense 110 at 4th position
```