**Bug fix using algo – Writeup**

**Project objective:**

As a developer, fix the bugs in the application using the appropriate sorting and searching techniques.

**Background of the problem statement:**

You have been assigned a few tasks during the sprint planning. 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>

**Following requirements should be met:**

* The source code should be pushed to your GitHub repositories. You need to document the steps and write the algorithms in the Google Docs.
* The link of your GitHub repository is must. In order to track your task, you need to share the link of the repository. You can add a section in the Google Docs.
* Document the step-by-step process involved in completing this task.

**Solution:**

* The Fix Bugs of Application is implemented using java concepts as defined in the problem statement. The Boiler plate code is provided by Simplilearn.

The fix Bugs of Application is already a developed application to perform specific tasks using a menu driven approach. The application is having some of the missing codes in two of the defined methods. The first method is SearchExpenses in which a searching code is fixed in order to implement searching for the required expenditure; Linear search is used to implement the same.

The second method is sortExpenses in which a sorting code is fixed in order to implement sorting the entire list of expenditure. merge sort is used to implement the same. After implementing both searching and sorting the same Boilerplate code gets completed and the user gets desired output at the console.

* The code has been pushed to Github repositories using Git.