**PROJECT**

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* **Sorting:**

The sorting is **a way to arrange elements of a list or array in a certain order**. The order may be in ascending or descending order. The numerical and lexicographical (alphabetical) order is a widely used order.

* **Collections:**

The Collection in Java is **a framework that provides an architecture to store and manipulate the group of objects**. Java Collections can achieve all the operations that you perform on a data such as searching, sorting, insertion, manipulation, and deletion. Java Collection means a single unit of objects.

* **Encapsulation:**

Encapsulation in Java refers to **integrating data (variables) and code (methods) into a single unit**. In encapsulation, a class's variables are hidden from other classes and can only be accessed by the methods of the class in which they are found.

* **File Handling:**

File handling in Java is defined as **reading and writing data to a file**. The particular file class from the package called java.io allows us to handle and work with different formats of files.

* **Exception Handling:**

Java Exception Handling is **a mechanism to handle runtime errors such as Class Not Found Exception, IO Exception, SQL Exception, Remote Exception, etc**. Exception is an unwanted or unexpected event, which occurs during the execution of a program, i.e. at run time, that disrupts the normal flow of the program's instructions.

**Flow chart :**

Displaying file names In order

Subopt==1

Subopt==3

Subopt==2

Subopt==4

Search file found or not

Deleted file or not

Creation done or not

Searching file

Deleting file

Creating file

End

Subopt

1.create 2.delete 3.search 4.back to main menu

Sorting

Op==3

Op==2

Op==1

Op

1.sort file 2.File handling 3.Exit

Start