PROJECT AND DEVELOPER DETAILS:

DEVELOPER:

L SHREYAS

#55, Pavitra green view, bangalore-560099

Contact: 6363680866

PROJECT GITHUB LINK:

https://github.com/shreyasshre/core_java_assessment

PROJECT: A project on file management to retrieve files, add, delete and search for files in different directories as a project for Company Lockers Pvt.Ltd

FUNCTIONALITIES USED

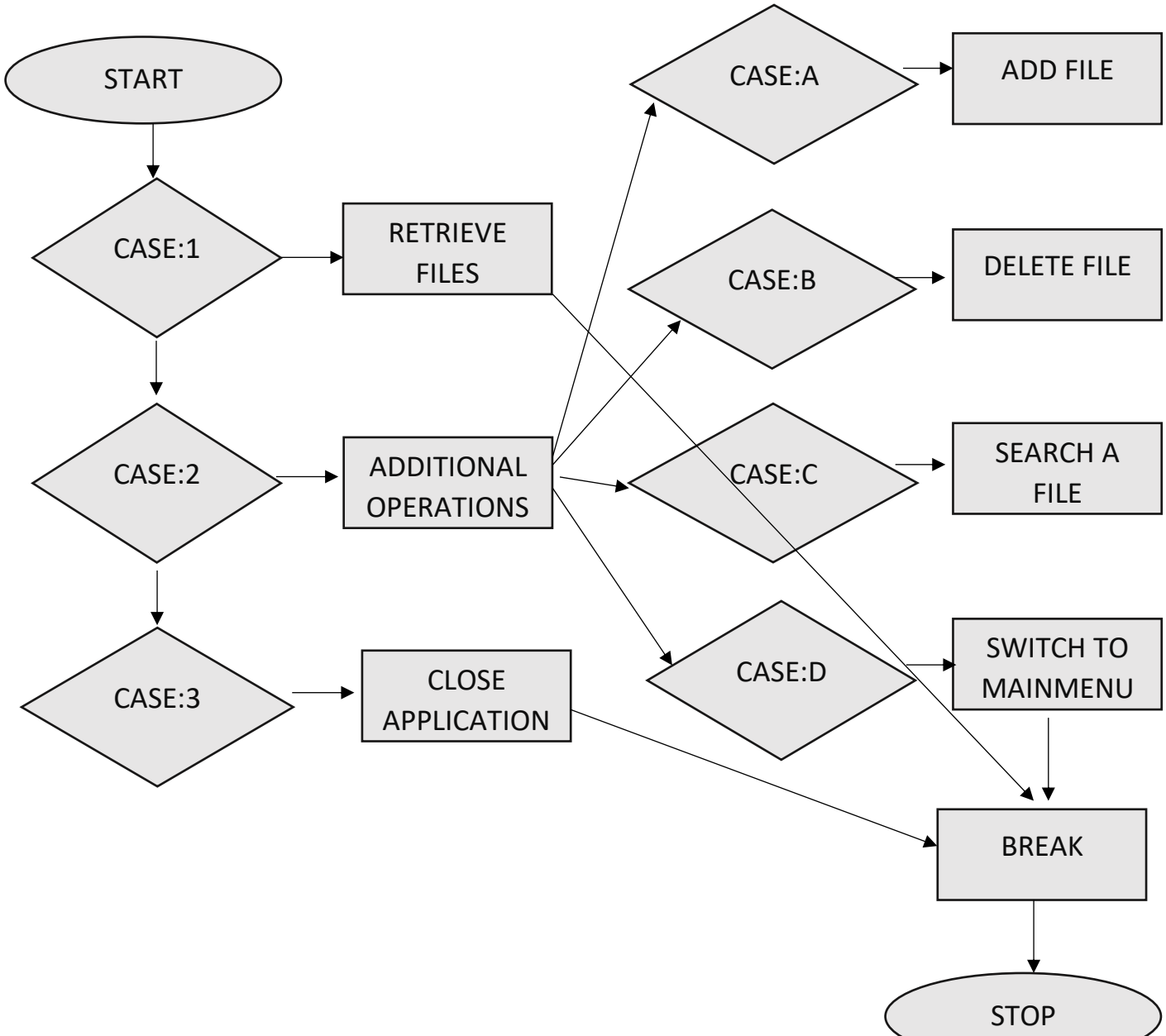
Switch case: A switch case is used to select one of many scenarios and select a single block of code matching the argument and ignore the others

While: A looping function which takes a Boolean argument and validate the condition each time the loop runs, a true condition will proceed with the functionalities inside the loop and exits the loop if the Boolean condition is not matched

Scanner: A scanner class with the object is used to take dynamic user input from user in runtime

Collections.sort: used to sort an arraylist using adaptive mergesort algorithm

FLOWCHART



SOURCE CODE

Github_repo: https://github.com/shreyasshre/core_java_assessment

```
package company_lockers;


import java.util.*;
import java.io.*;


public class file_tracer {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner s=new Scanner(System.in);
		int main_option;
		char sub_option;
		String folder_path;
		ArrayList<String> b=new ArrayList<String>();
		boolean outerloop=true,innerloop=true;


		System.out.println("A COMPANY LOCKERS PORTAL BY SHREYAS");


		while(outerloop==true)
		{

	System.out.println("\n**********************************************************
**********");
```

```
                System.out.println("Please select below options for the corresponding
operations \n");
                System.out.println("Option 1 : Retrieve all the files from a directory");
                System.out.println("Option 2 : Display additional file operations");
                System.out.println("Option 3 : Close the application \n");

        System.out.println("**********************************************************
***********\n");
                main_option=s.nextInt();


                switch (main_option) {
                case 1: {
                System.out.println("Enter the folder path u wish to retrieve all the files");
                folder_path=s.next();
                File obj=new File(folder_path);
                File a[]=obj.listFiles();
                for(int j=0;j<a.length;j++) {
                b.add(a[j].getName());
                }
                Collections.sort(b);
                System.out.println("\n----------------------------------------------------------------
----------\n");
                System.out.println("\n BELOW ARE THE FILES IN THE REQUESTED
DIRECTORY AND SORTED IN ASCENDING ORDER \n");
                for(int i=0;i<a.length;i++)
                        System.out.println(b.get(i));
                System.out.println("\n----------------------------------------------------------------
----------\n");
```

```
                    }break;
                    case 2:{
                        while(innerloop==true) {

        System.out.println("\n**************************************************
**********\n");
                        System.out.println("Below are the additional file operations,
please select the option to proceed");
                        System.out.println("Option A : Add a file in the current
directory");
                        System.out.println("Option B : Delete a specified file (case
sensitive)");
                        System.out.println("Option C : Search a specified file from current
directory");
                        System.out.println("Option D : Switch to main menu");

        System.out.println("\n**************************************************
**********\n");

                        sub_option = s.next().charAt(0);

                        switch (sub_option) {
                        case 'A': {
                        System.out.println("adding a file to directory");
                        try {
                            System.out.println("Please input the file name u wish to
add");
                            String file_name=s.next();
                            File myobj=new File(file_name);
                            if(myobj.createNewFile()) {
```

```
                                        //System.out.println("file "+file_name+" created
successfully");
                                        System.out.println("Type in a single word content u
wish to write to the file");
                                        String file_content=s.next();
                                        BufferedWriter out = new BufferedWriter(new
FileWriter(file_name+".txt"));
                                        out.write(file_content);
                                        out.close();

//
                                }
                                else {
                                        System.out.println("file already exists\n\n");
                                }
                        } catch (IOException e)
                        {
                                System.out.println("the file name u tried already exits
please try with a different file name");
                        }
                        }break;

                        case 'B': {
                                System.out.println("deleting a file");
                                System.out.println("Enter the file name with the path u
want to delete");
                                String delete_file_path=s.next();
                                File f=new File(delete_file_path);
                                if(f.delete()) {
```

```
                                        System.out.println("File "+delete_file_path+"
successfully deleted");
                                }
                                else {
                                        System.out.println("please recheck if the file exists
to delete");
                                }
                        }break;
                        case 'C': {
                                System.out.println("searching for a file");
                                System.out.println("Please input the file name u wish to
search with path");
                                String file_name=s.next();
                                File myobj=new File(file_name);
                                if(myobj.exists()) {
                                        System.out.println("The file exists in the current
directory");
                                }
                                else {
                                        System.out.println("The file does not exist");
                                }

                        }break;
                        case 'D': {
                                System.out.println("navigating to main menu");
                                innerloop=false;
                        }break;
```

```
                        default:
                                System.out.println("PLEASE SELECT AN APPROPRIATE
OPTION");
                        }

                }}break;



                case 3:{
                        System.out.println("Your application is closed");
                        outerloop=false;

                }break;



                default:
                        System.out.println("please enter a valid option");
                }


        }
        s.close();
    }

}
```