# Source Code:

## Application.java

```
import java.util.Scanner;

public class Application {
	public static void menuOptionsDisplay() {
		System.out.println("Select any of the following");
		System.out.println("1: To display all files in directory  \n"
				+ "2. To create a file in directory  \n"
				+ "3. To delete a file in directory \n"
				+ "4. To search a file in directory \n"
				+ "5. To exit the application. \n");
	}
	public static void main(String[] args) {
		System.out.println("Application Name: LockedMe.com");
		System.out.println("Developer Name: Preeti Das");
		boolean running = true;
		Scanner sc = new Scanner(System.in);
		do {
			Application.menuOptionsDisplay();
			int a=sc.nextInt();
			switch (a) {
			case 1:
				System.out.println("Displaying all files with directory structure in ascending
order\n");
				fileOperations.display();
				break;
			case 2:
				System.out.print("Enter file name to be created: ");
				Scanner sc1= new Scanner(System.in);
		String filename = sc1.nextLine();
		fileOperations.createFile(filename);
		break;
			case 3:
				Scanner sc2 = new Scanner(System.in);
		System.out.print("Enter file to be deleted: ");
		String filename1 = sc2.nextLine();
		fileOperations.deleteFile(filename1);
		break;
			case 4:
				System.out.print("Enter file to be searched for: ");
				Scanner sc3 = new Scanner(System.in);
				String filename11 = sc3.nextLine();
				fileOperations.searchFile(filename11);
				break;
			case 5:
				System.out.println("Application exited successfully.");
				running = false;
				sc.close();
				System.exit(0);
				break;
			default:
```

```
                                        System.out.println("Please enter a valid option.");
                                }
                        }while(running==true);


        }

}
```

**fileOperations.java**

```
import java.io.File;
import java.util.Arrays;
public class fileOperations {

        public static void display() {
                String path1 =  System.getProperty("user.dir");
    String[] dirListing = null;
    File dir = new File(path1);
    dirListing = dir.list();
    Arrays.sort(dirListing);
    System.out.println(Arrays.deepToString(dirListing));

        }


        public static void createFile(String filename) {
                File file = new File(filename);
    try {
    boolean value = file.createNewFile();
    if (value) {
       System.out.println("The new file is created.");
    }
    else {
       System.out.println("The file already exists.");
    }
    }
    catch(Exception e) {
    e.getStackTrace();
    }
        }
        public static void deleteFile(String fileName) {
                  try
              {
                 File f = new File(fileName);
                 if(f.delete())
                 {
                 System.out.println(f.getName() + " deleted");
                 }
                 else
                 {
                 System.out.println("File not found");
                 }
              }
              catch(Exception e)
```

```
                {
                e.printStackTrace();
                }
            }
            public static void searchFile(String fileName) {
                    File directory = new File("").getAbsoluteFile();

        String[] flist = directory.list();
        int flag = 0;
        if (flist == null) {
           System.out.println("Empty directory.");
        }
        else {

           // Linear search in the array
           for (int i = 0; i < flist.length; i++) {
              String filename = flist[i];
              if (filename.equalsIgnoreCase(fileName)) {
                 System.out.println(filename + " found");
                 flag = 1;
              }
           }
        }

        if (flag == 0) {
           System.out.println("File Not Found");
        }
            }
}
```