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package phase1Project;

import java.io.*;

import java.util.*;

public class CEPOperations {

    Scanner sc = new Scanner(System.in);

    public void Retrieving() {

        File folder = new File("/Users/sowmiyaa/Downloads/phase1Project");
        if (!folder.exists()) {
            folder.mkdirs();
        }

        File[] files = folder.listFiles();

        if(files.length==0) {

            System.out.println("No Files Found....");

        }

        else {

            List<String> fileList = new ArrayList<>();

            // Loop through each file in the folder and add its name to the list
            for (File file : files) {
                if (file.isFile()) {
                    fileList.add(file.getName());
                }
            }

            int n = fileList.size();
            for (int i = 0; i < n - 1; i++) {
                for (int j = i + 1; j < n; j++) {
                    if (fileList.get(i).compareTo(fileList.get(j)) > 0) {
                        String temp = fileList.get(i);
                        fileList.set(i, fileList.get(j));
                        fileList.set(j, temp);
                    }
                }
            }
        }
    }
}

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        // Print the list of file names
        for (String fileName : fileList) {
            System.out.println(fileName);
        }
    }
}

public void Add() {

    File folder = new File("/Users/sowmiyaa/Downloads/phase1Project");
    if (!folder.exists()) {
        folder.mkdirs();
    }

    File[] files = folder.listFiles();

    boolean checker;

    String nameoffile="";

    do {

        System.out.println("Enter the name of the file to add: ");

        nameoffile = sc.next();

        checker = false;

        for (File file : files) {
            if (nameoffile.equalsIgnoreCase(file.getName())) {
                System.out.println("File name already exists....");
                checker = true;
                break;
            }
        }
    }

    }while(checker);

    System.out.println("Enter the content of the file: ");

    sc.nextLine();

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String contentoffile = sc.nextLine();

File file = new File(folder, nameoffile);
try {
    FileWriter writer = new FileWriter(file);
    writer.write(contentoffile);
    writer.close();
    System.out.println("File created as " + file.getName());
} catch (IOException e) {
    System.out.println("An error occurred.");
    e.printStackTrace();
}

}

public void delete() {

    File folder = new File("/Users/sowmiyaa/Downloads/phase1Project");
    if (!folder.exists()) {
        folder.mkdirs();
    }

    File[] files = folder.listFiles();

    boolean checker;

    String nameoffile="";

    do {

        System.out.println("Enter the name of the file to delete: ");

        nameoffile = sc.next();

        checker = true;

        for (File file : files) {
            if (nameoffile.equalsIgnoreCase(file.getName())) {
                file.delete();
                System.out.println("File deleted...");
                checker = false;
                break;
            }
        }
    }
}

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        if(checker==true) {

            System.out.println("File name doesn't exists...");

        }

    }while(checker);

}

public void search() {

    File folder = new File("/Users/sowmiyaa/Downloads/phase1Project");
    if (!folder.exists()) {
        folder.mkdirs();
    }

    File[] files = folder.listFiles();

    boolean checker;

    String nameoffile="";

    do {

        System.out.println("Enter the name of the file to search: ");

        nameoffile = sc.next();

        checker = true;

        for (File file : files) {
            if (nameoffile.equalsIgnoreCase(file.getName())) {
                System.out.println("File content:");
                try (BufferedReader reader = new BufferedReader(new
FileReader(file))) {
                    String line;
                    while ((line = reader.readLine()) != null) {
                        System.out.println(line);
                    }
                } catch (IOException e) {
                    System.err.println("Error reading file: " + e.getMessage());
                }
                checker = false;
            }
        }
    } while (checker);
}

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        break;
    }
}

if(checker==true) {

    System.out.println("File name doesn't exists...");

}

}while(checker);

}

}
```