

Phase 1 Assignment

```
package com.cisco.phase1project;

import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Scanner;

public class Locker {
    static String DIRECTORY;
    File Foldername;
    Scanner sc=new Scanner(System.in);

    public Locker() {
        DIRECTORY=System.getProperty("user.dir");
        Foldername=new File(DIRECTORY+"/FILES");
        if(!Foldername.exists())
            Foldername.mkdirs();
        System.out.println("DIRECTORY :"+
Foldername.getAbsolutePath());
    }
    private static final String WELCOME_PROMPT=

        "\n=====LOCKERS=====\\n"+
        "\n*****NITISH SHET*****\\n";

    private static final String MAIN_MENU_PROMPT=
        "\nMAIN MENU -> Select any of the following:\\n"+
        "1 - List of files in the directory\\n"+
        "2 - Add,Delete and search the file\\n"+
        "3 - Exit the program\\n";

    private static final String SECONDARY_MENU_PROMPT =
        "\nSelect any of the following\\n"+
        "a - Add a file\\n"+
        "b - Delete a file\\n";
```

```
"c - Search a file\n"+  
    "d - Go back to menu";
```

```
void showPrimaryMenu() {  
    System.out.println(MAIN_MENU_PROMPT);  
    try {  
        int option=sc.nextInt();  
        switch(option) {  
            case 1:{  
                showFiles();  
                showPrimaryMenu();  
            }  
            case 2:{  
                showSecondarymenu();  
            }  
            case 3:{  
                System.out.println("Thank You");  
                System.exit(0);  
            }  
            default: showPrimaryMenu();  
        }  
    } catch (Exception e) {  
        System.out.println("please select the correct option");  
        showPrimaryMenu();  
    }  
}
```

```
ArrayList<String> data = new ArrayList<String>();
```

```
void showSecondarymenu() {  
    System.out.println(SECONDARY_MENU_PROMPT );  
  
    char sch = 'Y';  
    try {  
        char[] input=sc.nextLine().toLowerCase().trim().toCharArray();  
        char option=sc.next().charAt(0);  
  
        switch(option) {
```

```

        case 'a': while(sch=='Y') {
            System.out.println("Please enter the file name to ADD a file");
            String filename=sc.next().trim().toLowerCase();
            addFile(filename);
            System.out.println();
            System.out.println("Please enter Y to add more files");
            System.out.println("Please enter N to exit");
            sch=sc.next().charAt(0);
        }
        showSecondarymenu();
        break;
    case 'b':{
        System.out.println("Please enter the file name to DELETE a file");
        String filename =sc.next().trim();
        DeleteFile(filename);
    }
    showPrimaryMenu();
    break;
    case 'c':{
        System.out.println("Please enter the file name to SEARCH a file");
        String filename=sc.next().trim();
        SearchFile(filename);
        System.out.println("Please enter Y to search more files");
        System.out.println("Please enter N to exit");
        sch=sc.next().charAt(0);
    }
    showSecondarymenu();
    break;
    case 'd':{
        System.out.println("Go back to the main menu");
        String filename=sc.nextLine();
    }
    default :showPrimaryMenu();
}
} catch (Exception e) {
    System.out.println("please select the correct option");
}

}

void showFiles() {

```

```

        Collections.sort(data);
        for(String str:data) {
            System.out.println(str);
        }
    }

    void addFile(String filename) throws IOException {
        for(String file:data) {
            if(filename.equalsIgnoreCase(file)) {
                System.out.println("File "+filename+" already exists at
"+Foldername);;
                return;
            }
        }
        data.add(filename);
        System.out.println("File "+filename+" added to "+Foldername);
    }

    void DeleteFile(String filename) {
        try {
            for(String file:data) {
                if(filename.equals(file)) {
                    data.remove(filename);
                    System.out.println("File "+filename+" deleted from "+Foldername);
                    return;
                }
            }
            System.out.println("Delete opertion is failed. FILE NOT FOUND(FNF)");
        } catch(Exception e) {
            System.out.println(e);
        }
    }

    void SearchFile(String filename) {
        if(data.contains(filename)) {
            System.out.println("FOUND : File "+filename+" exists at "+Foldername);
            return;
        } else {
            System.out.println("FILE NOT FOUND");
        }
    }

```

```

    }
    public static void main(String[] args) {
        System.out.println(WELCOME_PROMPT);
        Locker l=new Locker();
        l.showPrimaryMenu();
    }
}

```

```

package com.cisco.phase1project;

```

```

import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Scanner;

```

```

public class Locker {
    static String DIRECTORY;
    File Foldername;
    Scanner sc=new Scanner(System.in);

    public Locker() {
        DIRECTORY=System.getProperty("user.dir");
        Foldername=new File(DIRECTORY+"/FILES");
        if(!Foldername.exists())
            Foldername.mkdirs();
        System.out.println("DIRECTORY :"+
Foldername.getAbsolutePath());
    }
    private static final String WELCOME_PROMPT=

        "\n=====LOCKERS=====\\n"+
        "\n*****NITISH SHET*****\\n";

    private static final String MAIN_MENU_PROMPT=
        "\nMAIN MENU -> Select any of the following:\\n"+
        "1 - List of files in the directory\\n"+
        "2 - Add,Delete and search the file\\n"+

```

```
"3 - Exit the program\n";
```

```
private static final String SECONDARY_MENU_PROMPT =
```

```
"\nSelect any of the following\n"+
```

```
"a - Add a file\n"+
```

```
"b - Delete a file\n"+
```

```
"c - Search a file\n"+
```

```
"d - Go back to menu";
```

```
void showPrimaryMenu() {
```

```
    System.out.println(MAIN_MENU_PROMPT);
```

```
    try {
```

```
        int option=sc.nextInt();
```

```
        switch(option) {
```

```
            case 1:{
```

```
                showFiles();
```

```
                showPrimaryMenu();
```

```
            }
```

```
            case 2:{
```

```
                showSecondarymenu();
```

```
            }
```

```
            case 3:{
```

```
                System.out.println("Thank You");
```

```
                System.exit(0);
```

```
            }
```

```
            default: showPrimaryMenu();
```

```
        }
```

```
    } catch (Exception e) {
```

```
        System.out.println("please select the correct option");
```

```
        showPrimaryMenu();
```

```
    }
```

```
}
```

```
ArrayList<String> data = new ArrayList<String>();
```

```
void showSecondarymenu() {
```

```
    System.out.println(SECONDARY_MENU_PROMPT );
```

```

char sch = 'Y';
try {
    char[] input=sc.nextLine().toLowerCase().trim().toCharArray();
    char option=sc.next().charAt(0);

    switch(option) {
    case 'a': while(sch=='Y') {
        System.out.println("Please enter the file name to ADD a file");
        String filename=sc.next().trim().toLowerCase();
        addFile(filename);
        System.out.println();
        System.out.println("Please enter Y to add more files");
        System.out.println("Please enter N to exit");
        sch=sc.next().charAt(0);
    }
        showSecondarymenu();
        break;
    case 'b':{
        System.out.println("Please enter the file name to DELETE a file");
        String filename =sc.next().trim();
        DeleteFile(filename);
    }
        showPrimaryMenu();
        break;
    case 'c':{
        System.out.println("Please enter the file name to SEARCH a file");
        String filename=sc.next().trim();
        SearchFile(filename);
        System.out.println("Please enter Y to search more files");
        System.out.println("Please enter N to exit");
        sch=sc.next().charAt(0);
    }
        showSecondarymenu();
        break;
    case 'd':{
        System.out.println("Go back to the main menu");
        String filename=sc.nextLine();
    }
    default :showPrimaryMenu();
    }
}

```

```

        } catch (Exception e) {
            System.out.println("please select the correct option");
        }
    }
}

void showFiles() {
    Collections.sort(data);
    for(String str:data) {
        System.out.println(str);
    }
}

void addFile(String filename) throws IOException {
    for(String file:data) {
        if(filename.equalsIgnoreCase(file)) {
            System.out.println("File "+filename+" already exists at
"+Foldername);;
            return;
        }
    }
    data.add(filename);
    System.out.println("File "+filename+" added to "+Foldername);
}

void DeleteFile(String filename) {
    try {
        for(String file:data) {
            if(filename.equals(file)) {
                data.remove(filename);
                System.out.println("File "+filename+" deleted from "+Foldername);
                return;
            }
        }
        System.out.println("Delete opertion is failed. FILE NOT FOUND(FNF)");
    } catch (Exception e) {
        System.out.println(e);
    }
}

void SearchFile(String filename) {

```



```

        if(data.contains(filename)) {
            System.out.println("FOUND : File "+filename+" exists at "+Foldername);
            return;
        } else {
            System.out.println("FILE NOT FOUND");
        }
    }
}

public static void main(String[] args) {
    System.out.println(WELCOME_PROMPT);
    Locker l=new Locker();
    l.showPrimaryMenu();
}
}

```

Output

=====LOCKERS=====

*****NITISH SHET*****

DIRECTORY

:C:\Users\nithi\Documents\workspace-spring-tool-suite-4-4.16.1.RELEASE\Phase1\FIL
ES

MAIN MENU -> Select any of the following:

- 1 - List of files in the directory
- 2 - Add,Delete and search the file
- 3 - Exit the program

2

Select any of the following

- a - Add a file
- b - Delete a file
- c - Search a file
- d - Go back to menu

a

Please enter the file name to ADD a file

flipkart

File flipkart added to

C:\Users\nithi\Documents\workspace-spring-tool-suite-4-4.16.1.RELEASE\Phase1\FILE
S

Please enter Y to add more files

Please enter N to exit

y

Select any of the following

a - Add a file

b - Delete a file

c - Search a file

d - Go back to menu

a

Please enter the file name to ADD a file

myntra

File myntra added to

C:\Users\nithi\Documents\workspace-spring-tool-suite-4-4.16.1.RELEASE\Phase1\FILE
S

Please enter Y to add more files

Please enter N to exit

y

Select any of the following

a - Add a file

b - Delete a file

c - Search a file

d - Go back to menu

a

Please enter the file name to ADD a file

amazon

File amazon added to

C:\Users\nithi\Documents\workspace-spring-tool-suite-4-4.16.1.RELEASE\Phase1\FILE
S

Please enter Y to add more files

Please enter N to exit

n

Select any of the following

- a - Add a file
- b - Delete a file
- c - Search a file
- d - Go back to menu

d

Go back to the main menu

MAIN MENU -> Select any of the following:

- 1 - List of files in the directory
- 2 - Add,Delete and search the file
- 3 - Exit the program

1

amazon

flipkart

myntra

MAIN MENU -> Select any of the following:

- 1 - List of files in the directory
- 2 - Add,Delete and search the file
- 3 - Exit the program

2

Select any of the following

- a - Add a file
- b - Delete a file
- c - Search a file
- d - Go back to menu

b

Please enter the file name to DELETE a file

amazon

File amazon deleted from

C:\Users\nithi\Documents\workspace-spring-tool-suite-4-4.16.1.RELEASE\Phase1\FILE
S

MAIN MENU -> Select any of the following:

- 1 - List of files in the directory
- 2 - Add,Delete and search the file

3 - Exit the program

1

flipkart

myntra

MAIN MENU -> Select any of the following:

1 - List of files in the directory

2 - Add,Delete and search the file

3 - Exit the program

2

Select any of the following

a - Add a file

b - Delete a file

c - Search a file

d - Go back to menu

c

Please enter the file name to SEARCH a file

myntra

FOUND : File myntra exists at

C:\Users\nithi\Documents\workspace-spring-tool-suite-4-4.16.1.RELEASE\Phase1\FILE

S

Please enter Y to search more files

Please enter N to exit

y

Select any of the following

a - Add a file

b - Delete a file

c - Search a file

d - Go back to menu

c

Please enter the file name to SEARCH a file

amazon

FILE NOT FOUND

Please enter Y to search more files

Please enter N to exit

n

Select any of the following

a - Add a file

b - Delete a file

c - Search a file

d - Go back to menu

d

Go back to the main menu

MAIN MENU -> Select any of the following:

1 - List of files in the directory

2 - Add,Delete and search the file

3 - Exit the program

3

Thank You