

**//Source Code**

**//Developed by Dr. JYOTHI N.M**

```
import java.io.*;
```

```
import java.io.FileNotFoundException;
```

```
import java.util.Scanner;
```

```
import java.io.File;
```

```
import java.io.IOException;
```

```
import java.util.*;
```

```
interface FileInterface {
```

```
    public abstract void showAllFiles();
```

```
    public abstract void addFile();
```

```
    public abstract void deleteFile();
```

```
    public abstract void searchFile();
```

```
}
```

```
public class Project {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        welcomeScreen();

        try {

            menuDriven();

        } catch (FileNotFoundException e) {

            // TODO Auto-generated catch block

            e.printStackTrace();

        }

    }

    public static void welcomeScreen() {

        System.out.println("Application Name : LockedMe.com \n");

        System.out.println("Developed by Dr. JYOTHI N.M. \n");

    }

    public static void menuDriven() throws FileNotFoundException {
```

```

        Scanner sc = new Scanner(System.in);

        BusinessLevelOperations obj = new
BusinessLevelOperations();

        int option;

        do {

            System.out.println("Enter your choice which you want to select:
\n");

            System.out.println("\t1. Retrieve current Filenames in
Ascending Order \n");

            System.out.println("\t2. Business-level Operation menu \n");
            System.out.println("\t3. Exit from the Application \n");


            option=sc.nextInt();

            switch(option) {

            case 1:

                obj.showAllFiles();

                break;

            case 2:

                int ch;

                do {

                    System.out.println("Enter your choice for Business level
operation");

                    System.out.println("\t1. Add a file and its content to a
directory");

```

```

        System.out.println("\t2. Delete a file from a directory");
        System.out.println("\t3. Searching a file and showing its
content");

        System.out.println("\t4. Exit from BLO menu");

        ch=sc.nextInt();
        switch(ch) {
        case 1:
            obj.addFile();
            break;
        case 2:
            obj.deleteFile();
            break;
        case 3:

            obj.searchFile();
            break;
        case 4:
            System.out.println("Exited from the Business
Level operation...");

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

            break;
        default:

```

```
        System.out.println("Invalid Choice");
        break;
    }
}while(ch!=4);
break;
case 3:
    System.out.println("Exiting from the application...");
    break;
default:
    System.out.println("Invalid choice");
}

//System.out.println("Press 0 to continue");
}while(option!=3);

}

}
```

```
class BusinessLevelOperations implements FileInterface{
```

```
    public void showAllFiles() {  
        // creates a file object  
        System.out.println("List of Files ");  
        try {  
            File file = new File("D:\\test");  
  
            // returns an array of all files  
            String[] fileList = file.list();  
  
            for(String str : fileList) {  
                System.out.println(str);  
            }  
        }  
        catch(Exception e) {  
            e.printStackTrace();  
        }  
    }
```

```
}
```

@Override

```
public void addFile() {  
    // TODO Auto-generated method stub  
    Scanner sc=new Scanner(System.in);    //object of Scanner class  
    System.out.print("Enter the file name: ");  
    String name=sc.nextLine();  
    File file = new File("D:\\test\\"+name); //initialize File object and  
    passing path as argument  
    boolean result;  
    try  
    {  
        result = file.createNewFile(); //creates a new file  
        if(result)    // test if successfully created a new file  
        {  
            System.out.println("file created "+file.getCanonicalPath()); //returns the path  
            string  
        }  
        else
```

```
    {  
        System.out.println("File already exist at location:  
"+file.getCanonicalPath());  
    }  
    }  
    catch (IOException e)  
    {  
        e.printStackTrace(); //prints exception if any  
    }  
  
    System.out.println("Enter data for file");  
    try {  
  
        PrintWriter out = new PrintWriter(file);  
  
        // Echo keyboard input out to the file.  
  
        while (sc.hasNextLine())  
        {  
            String line = sc.nextLine();  
            out.println(line);  
        }  
    }  
}
```



```
}
```

```
System.out.println("Done");
```

```
out.close();
```

```
}
```

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

```
}
```

```
@Override
```

```
public void deleteFile() {
```

```
    // TODO Auto-generated method stub
```

```
    System.out.println("Enter the file which you want to delete:");
```

```
    //sc.next();
```

```
    Scanner scan=new Scanner(System.in);
```

```
    String filename=scan.nextLine();
```

```
    File F= new File("D:\\test\\"+filename);
```

```
    if(F.delete())
```

```
        System.out.println(filename+" got Deleted");
```

```
    else
```

```
        System.out.println("File Not Found");
```

```
}
```

```
@Override
```

```
public void searchFile() {
```

```
    Scanner scan = new Scanner(System.in);
```

```
    System.out.println("Enter the file to be searched with extension.. " );
```

```
    String name = scan.next();
```

```
    File directory = new File("D:\\test\\");
```

```
    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(name)) {
            System.out.println(filename + " found");
            flag = 1;
        }
        //reading contents of file

        System.out.println("contents of file: \n");
        try {
            File f= new File("D:\\test\\"+filename);
            Scanner sc1 = new Scanner(f);

            while(sc1.hasNextLine()) {
                System.out.println(sc1.nextLine());
            }

        } catch(Exception e) {
        }
    }

    } //for new close

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

```

```

        //} //for
    }

}

}

//outputs

Application Name : LockedMe.com

Developed by Dr. JYOTHI N.M.

Enter your choice which you want to select:

    1. Retrieve current Filenames in Ascending Order

    2. Business-level Operation menu

    3. Exit from the Application

2
Enter your choice for Business level operation
    1. Add a file and its content to a directory
    2. Delete a file from a directory
    3. Searching a file and showing its content
    4. Exit from BLO menu

1
Enter the file name: File1
File already exist at location: D:\test\file1
Enter data for file
This is the content for file 1
and this is used for testing
Done
Enter your choice for Business level operation
    1. Add a file and its content to a directory
    2. Delete a file from a directory
    3. Searching a file and showing its content
    4. Exit from BLO menu

3
Enter the file to be searched with extension..
file1

```

file1 found  
contents of file:

This is the content for file 1  
an this is used for testing  
Enter your choice for Business level operation  
1. Add a file and its content to a directory  
2. Delete a file from a directory  
3. Searching a file and showing its content  
4. Exit from BLO menu

1  
Enter the file name: demofile  
File already exist at location: D:\test\demofile  
Enter data for file  
this is demo file for  
testing purpose  
Done  
Enter your choice for Business level operation  
1. Add a file and its content to a directory  
2. Delete a file from a directory  
3. Searching a file and showing its content  
4. Exit from BLO menu

2  
Enter the file which you want to delete:  
demofile.txt  
demofile.txt got Deleted  
Enter your choice for Business level operation  
1. Add a file and its content to a directory  
2. Delete a file from a directory  
3. Searching a file and showing its content  
4. Exit from BLO menu

1  
Enter the file name: materialdetails  
file created D:\test\materialdetails  
Enter data for file  
Details of the material goes  
into this file  
Done  
Enter your choice for Business level operation  
1. Add a file and its content to a directory  
2. Delete a file from a directory  
3. Searching a file and showing its content  
4. Exit from BLO menu

3

Enter the file to be searched with extension..

materialdetails

materialdetails found

contents of file:

Details of the material goes  
into this file

Enter your choice for Business level operation

1. Add a file and its content to a directory
2. Delete a file from a directory
3. Searching a file and showing its content
4. Exit from BLO menu

3

Enter the file to be searched with extension..

demo.txt

File Not Found

Enter your choice for Business level operation

1. Add a file and its content to a directory
2. Delete a file from a directory
3. Searching a file and showing its content
4. Exit from BLO menu

2

Enter the file which you want to delete:

order1

order1 got Deleted

Enter your choice for Business level operation

1. Add a file and its content to a directory
2. Delete a file from a directory
3. Searching a file and showing its content
4. Exit from BLO menu

2

Enter the file which you want to delete:

paymentfile

File Not Found

Enter your choice for Business level operation

1. Add a file and its content to a directory
2. Delete a file from a directory
3. Searching a file and showing its content
4. Exit from BOL menu

3

Enter the file to be searched with extension..

materialdetails

materialdetails found

contents of file:

Details of the material goes  
into this file

Enter your choice for Business level operation

1. Add a file and its content to a directory
2. Delete a file from a directory
3. Searching a file and showing its content
4. Exit from BLO menu

4

Exited from the Business Level operation...

-----

Enter your choice which you want to select:

1. Retrieve current Filenames in Ascending Order
2. Business-level Operation menu
3. Exit from the Application

1

List of Files

file1

file2.txt

file3.txt

file4.txt

materialdetails

orderdetails

testfile.txt

Enter your choice which you want to select:

1. Retrieve current Filenames in Ascending Order
2. Business-level Operation menu
3. Exit from the Application

3

Exiting from the application...