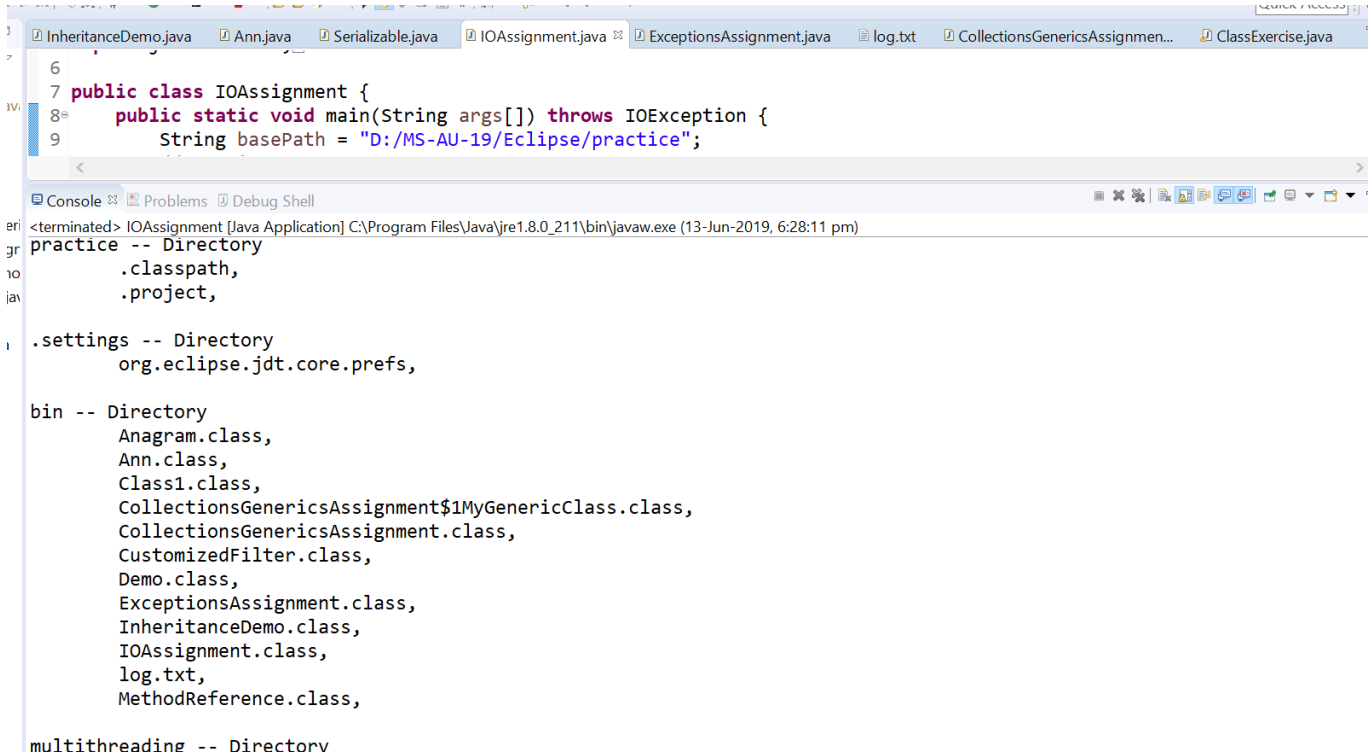


FileIO Assignment

Exercise-1: listing all files from a directory recursively with Java.

[source-->IOAssignment.java]



The screenshot shows the Eclipse IDE with the `IOAssignment.java` file open. The code defines a `public class IOAssignment` with a `main` method that takes `String args[]` and throws `IOException`. The `main` method sets `basePath` to `"D:/MS-AU-19/Eclipse/practice"`. The console output shows the execution of the program, listing files and directories recursively. The output is as follows:

```
<terminated> IOAssignment [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (13-Jun-2019, 6:28:11 pm)
practice -- Directory
        .classpath,
        .project,
        .settings -- Directory
                org.eclipse.jdt.core.prefs,
bin -- Directory
        Anagram.class,
        Ann.class,
        Class1.class,
        CollectionsGenericsAssignment$1MyGenericClass.class,
        CollectionsGenericsAssignment.class,
        CustomizedFilter.class,
        Demo.class,
        ExceptionsAssignment.class,
        InheritanceDemo.class,
        IOAssignment.class,
        log.txt,
        MethodReference.class,
multithreading -- Directory
```

Exercise -2: listing out all files that are end with ".txt" extension in a folder, and then delete it.

[source-->IOAssignment.java]

src directory before deleting the files

This PC > Work (D:) > MS-AU-19 > Eclipse > Practice > src				
	Name	Date modified	Type	Size
ss	multithreading	13-06-2019 09:26	File folder	
ds	Anagram	12-06-2019 16:45	JAVA File	1 KB
its	Ann	11-06-2019 12:07	JAVA File	1 KB
	CollectionsGenericsAssignment	13-06-2019 11:24	JAVA File	4 KB
	ExceptionsAssignment	12-06-2019 21:27	JAVA File	3 KB
optionHanc	InheritanceDemo	11-06-2019 15:17	JAVA File	2 KB
	IOAssignment	13-06-2019 18:28	JAVA File	3 KB
9	log	12-06-2019 21:48	Text Document	1 KB
	Sample	12-06-2019 14:51	JAVA File	1 KB
	Serializable	12-06-2019 11:46	JAVA File	1 KB
	Text1	12-06-2019 12:53	Text Document	1 KB
	Text2	12-06-2019 12:50	Text Document	1 KB
.ts				

listing .txt files and deleting those files

InheritanceDemo.javaAnn.javaSerializable.javaIOAssignment.javaExceptionsAssignment.javalog.txtCollectionsGenericsAssignmen...ClassExerciseJa

```
// public class IOAssignment {
8 public static void main(String args[]) throws IOException {
9     String basePath = "D:/MS-AU-19/Eclipse/practice";
10    //Exercise-1
11    File file = new File(basePath);
12    // printFileDirectory(file);
13    //
14    //Exercise-2(print files with extensions .txt)
15    String directoryvPath=basePath + "/src";
```

ConsoleProblemsDebug Shell

<terminated> IOAssignment [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (13-Jun-2019, 6:31:34 pm)

log.txtDeleted
Text1.txtDeleted
Text2.txtDeleted

src directory after deleting the .txt files

This PC > Work (D:) > MS-AU-19 > Eclipse > Practice > src				
	Name	Date modified	Type	Size
ess	multithreading	13-06-2019 09:26	File folder	
,	Anagram	12-06-2019 16:45	JAVA File	1 KB
ads	Ann	11-06-2019 12:07	JAVA File	1 KB
nts	CollectionsGenericsAssignment	13-06-2019 11:24	JAVA File	4 KB
	ExceptionsAssignment	12-06-2019 21:27	JAVA File	3 KB
ceptionHanc	InheritanceDemo	11-06-2019 15:17	JAVA File	2 KB
	IOAssignment	13-06-2019 18:31	JAVA File	3 KB
19	Sample	12-06-2019 14:51	JAVA File	1 KB
	Serializable	12-06-2019 11:46	JAVA File	1 KB

Exercise -3,4: copy one file/directory into another.

[source-->IOAssignment.java]

Exception Handling Assignment

Exercise-1:

Create a new Java project. Write a code which generates the following exceptions:

- 1.ArithmeticException,
- 2.rrayIndexOutOfBoundsException and
- 3.FileNotFoundException

Exercise-2

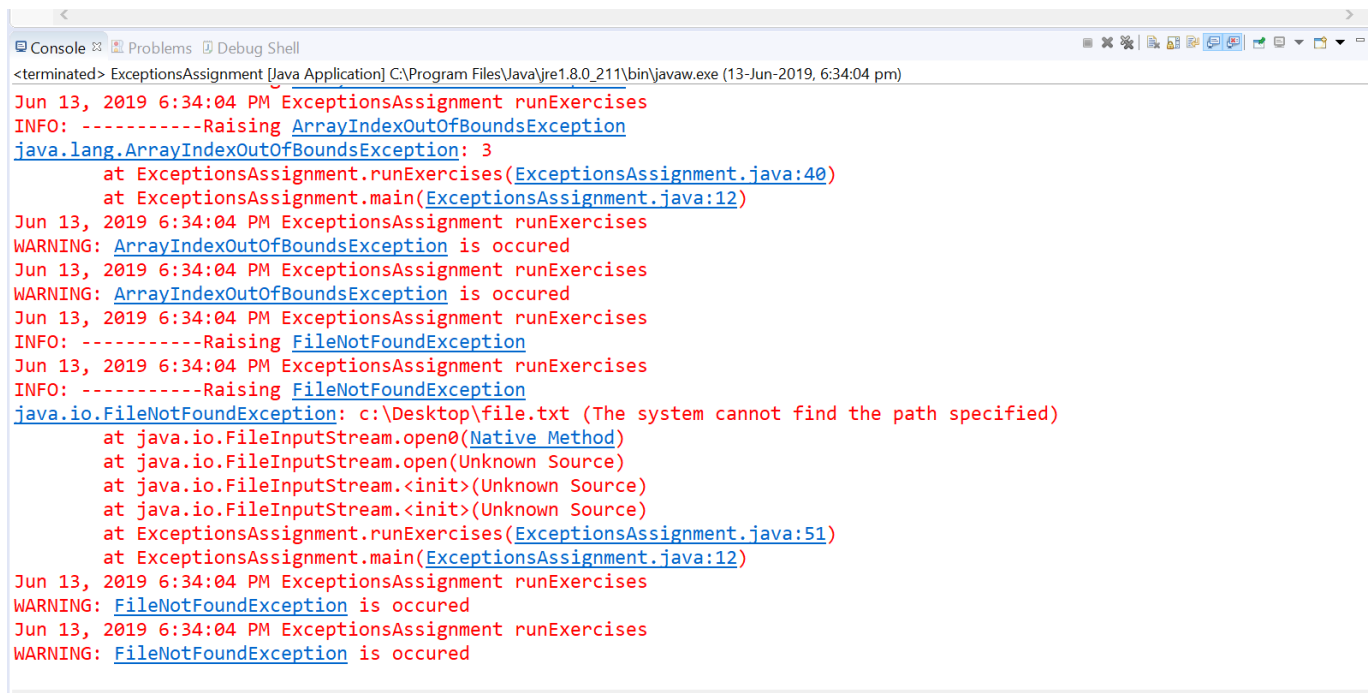
Handle the exceptions mentioned in Exercise 1 using the catch block and log appropriate error messages.

Exercise-3

Fiddle with the configurations of the logger and produce the log files at different locations on your machine.

```
[source-->ExceptionsAssignment.java]
```

OUTPUT



```
<terminated> ExceptionsAssignment [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (13-Jun-2019, 6:34:04 pm)
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
INFO: -----Raising ArrayIndexOutOfBoundsException
java.lang.ArrayIndexOutOfBoundsException: 3
    at ExceptionsAssignment.runExercises(ExceptionsAssignment.java:40)
    at ExceptionsAssignment.main(ExceptionsAssignment.java:12)
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
WARNING: ArrayIndexOutOfBoundsException is occurred
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
WARNING: ArrayIndexOutOfBoundsException is occurred
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
INFO: -----Raising FileNotFoundException
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
INFO: -----Raising FileNotFoundException
java.io.FileNotFoundException: c:\Desktop\file.txt (The system cannot find the path specified)
    at java.io.FileInputStream.open0(Native Method)
    at java.io.FileInputStream.open(Unknown Source)
    at java.io.FileInputStream.<init>(Unknown Source)
    at java.io.FileInputStream.<init>(Unknown Source)
    at ExceptionsAssignment.runExercises(ExceptionsAssignment.java:51)
    at ExceptionsAssignment.main(ExceptionsAssignment.java:12)
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
WARNING: FileNotFoundException is occurred
Jun 13, 2019 6:34:04 PM ExceptionsAssignment runExercises
WARNING: FileNotFoundException is occurred
```