

# How to Read File Line by Line using Stream in Java 8?

## Read File Line by Line using Stream in Java 8

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The steps to read contents of a File line by line using Stream in Java are

**Step 1:** Use Files.lines to get Stream[<https://docs.oracle.com/javase/8/docs/api/java/util/stream/Stream.html>] <String>

```
Stream<String> stream = Files.lines(Path path, Charset cs)
```

Stream<T> contains elements of type T. Stream<String> contains strings which are lines from the contents of file(specified by the Path).

**Step 2:** Use Stream.forEach(action)

[<https://docs.oracle.com/javase/8/docs/api/java/util/stream/Stream.html#forEach-java.util.function.Consumer->] to do the specified action on each String of the Stream<String> object.

```
stream.forEach(System.out::println);
```

We chose the action to “Print the String element (here line) to the output console”.

## Example 1 – Read File Line by Line – Java 8 Stream

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In this example, we have a text file named samplefile.txt, and we will read contents of this file, line by line, using Stream class.

**samplefile.txt**

```
This is first line.  
This is second line.  
This is third line.  
Welcome to www.tutorialkart.com.
```

**Example.java**

---

```
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.util.stream.Stream;

/**
 * Read contents of a File line by line using Stream in Java 8
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 */
public class Example {
    public static void main(String[] args) {
        String filename = "samplefile.txt";
        Path path = Paths.get(filename);
        Stream<String> stream;
        try {
            // read the contents of the file to a Stream
            stream = Files.lines(path);
            // System.out::println is the action to be done on each element, i.e., line
            stream.forEach(System.out::println);
        } catch (IOException e) {
            System.out.println("There is an exception because of the file. Please check.
            e.printStackTrace());
        }
    }
}
```

When the above program is run, output to the console is as shown in the following.

### Output

```
This is first line.
This is second line.
This is third line.
Welcome to www.tutorialkart.com.
```

**Note:** Provide the path to the file correctly. In this example, the file is placed at the root of Project Folder (of Eclipse Project).

### Conclusion

In this tutorial we have seen how to use `java.util.stream.Stream` to read the contents of a file line by line.

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