Configuring The JDK Logger

Starting in jdk 1.4, Sun has provided a full-featured and fully configurable logging class, called Logger,with the standard Java libraries. This document shows how to configure the Logger class that are typical for real projects.

The logging.properties file

Configuration specifications are placed by default in a file called logging.properties which can be found in /jre/lib folder in any jdk distribution. This file allows you to set up separate loggers for console display and logs stored in files; allows you to set independent levels; and allows you to specify details about how logs stored in files should be formatted and named, and where they should be stored.

You have been given a modified version of this file in the resources directory by providing both console and file logs, each with different formats.

To complete setup for this customization, follow these steps:

Setting up logging customization

1. Tell the JVM where `logging.properties` is stored by passing in a runtime argument in your main class file by doing the follwing steps.

    a. Highlight Start and click Run > Run. There should be an option to choose a Run Configuration (details are different in different versions of Eclipse)
    b. In the Main tab, name the Configuration, make sure project is same as your main class file and that main class is the full package name for Start.
    c. In the Arguments tab, type into the VM Arguments area something like the following line: (forward slashes should be used – *no spaces*)

    ```
    -Djava.util.logging.config.file=E:/ReMo/FPP-
    coding/Sampledemo/src/resources/logging.properties
    ```

    ```
    // Make a resources folder in your src directory
    ```

2. Tell the LogManager where log files should be stored by modifying logging.properties, setting the property
    `java.util.logging.FileHandler.pattern`
    in a way that is similar to the following: (use forward slashes)
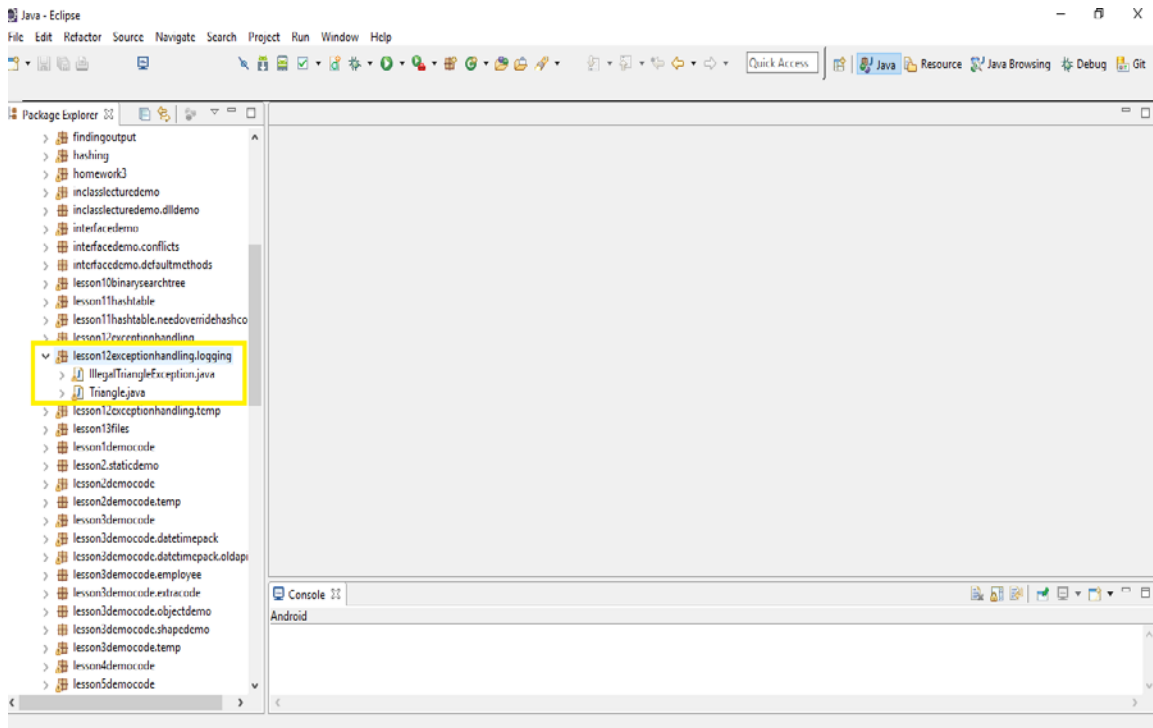
    ```
    java.util.logging.FileHandler.pattern =
        E:/ReMo/FPP-Coding/Sampledemo/src/logs/java%u.log
    ```

    ```
    // Make a logs folder in your src directory
    ```
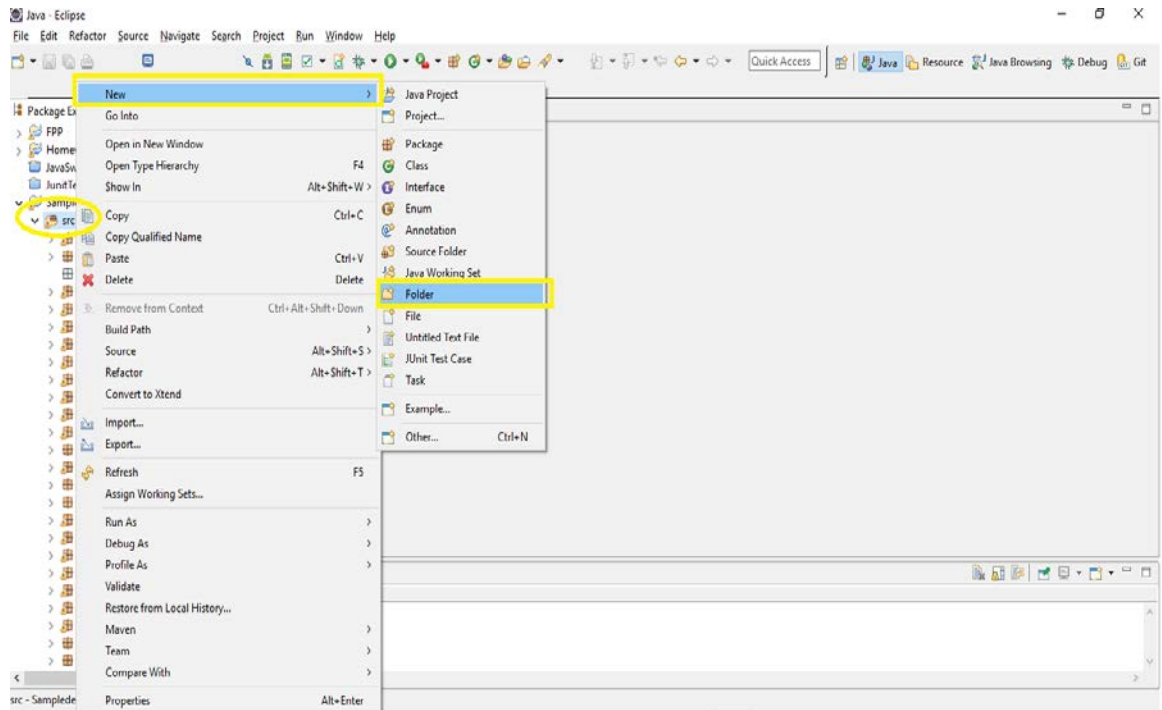
3. You can configure the appearance of log statements written either to the console or to files by specifying your own formatter.
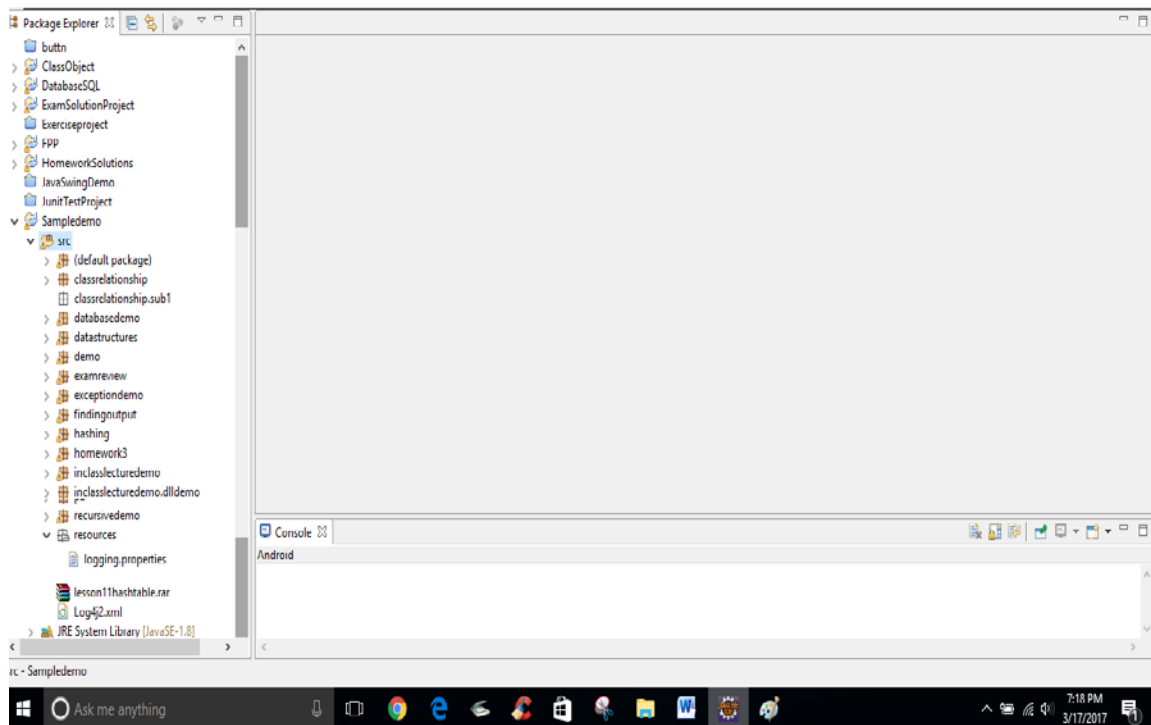
Screen Shots

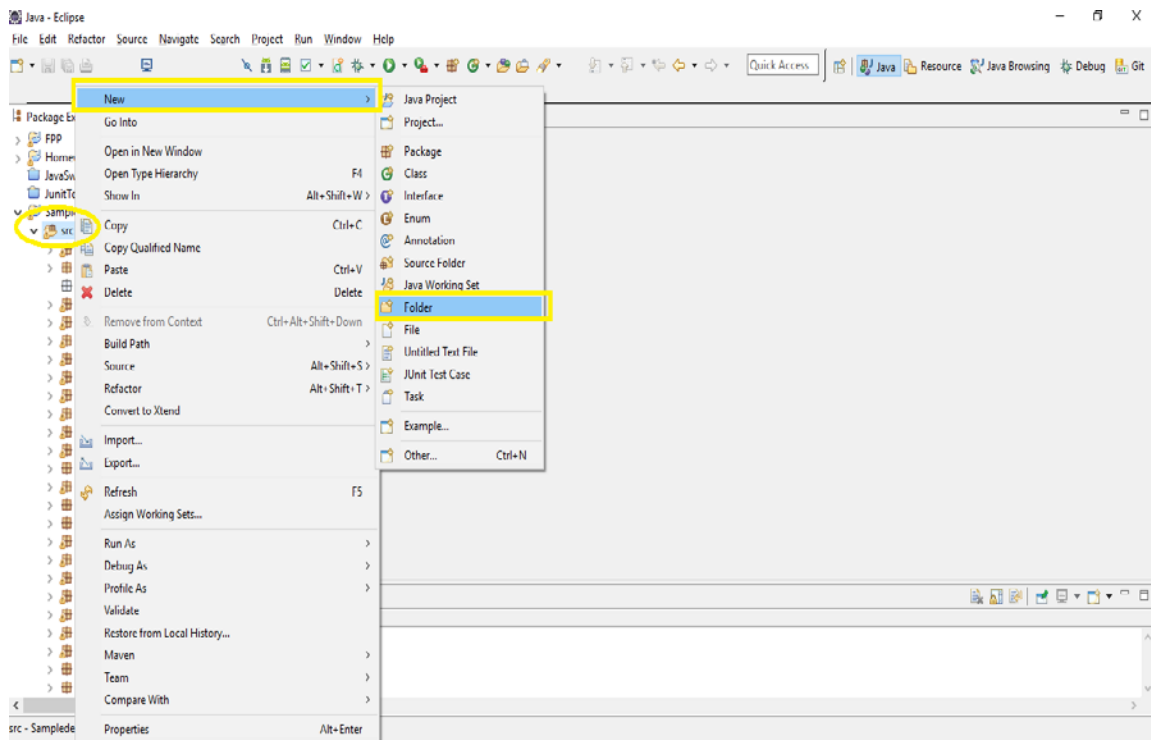Step 1 : Create new package and copy two java files from your demo code package.

Step : 2 Create a folder named as resources under src

Step 3 : Copy `logging.properties` file from your lesson12 demo code and paste in your eclipse resources folder in the previous step.

Step : 4 – Create a new named as logs under src
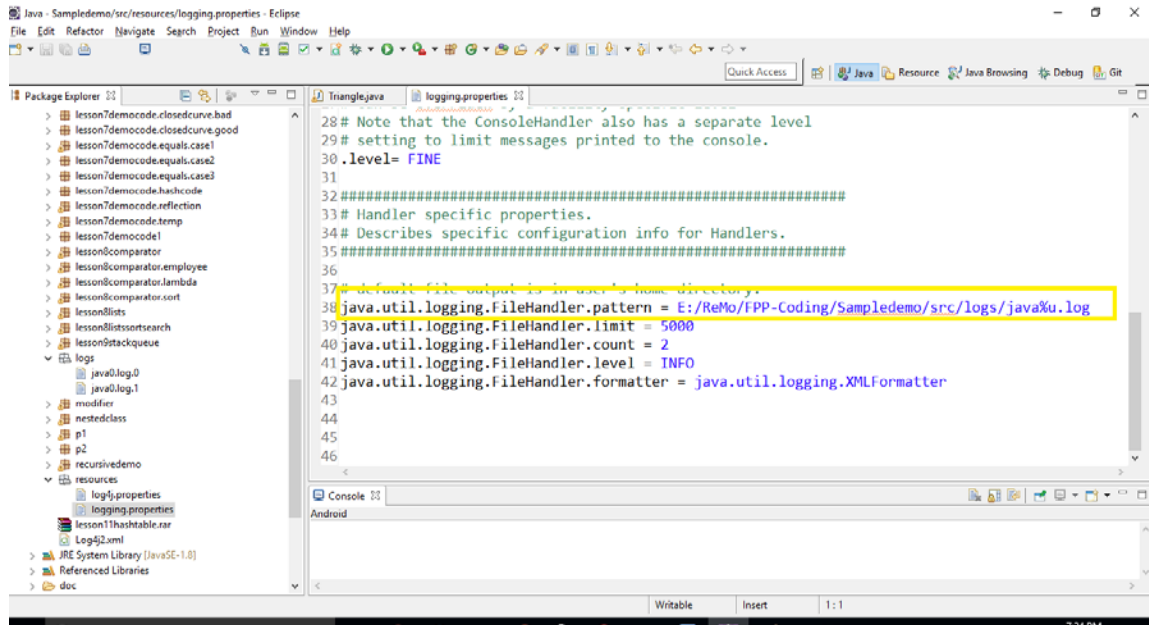
Step : 5

Tell the LogManager where log files should be stored by modifying logging.properties, setting the property by opening your logging.properties file in your eclipse.
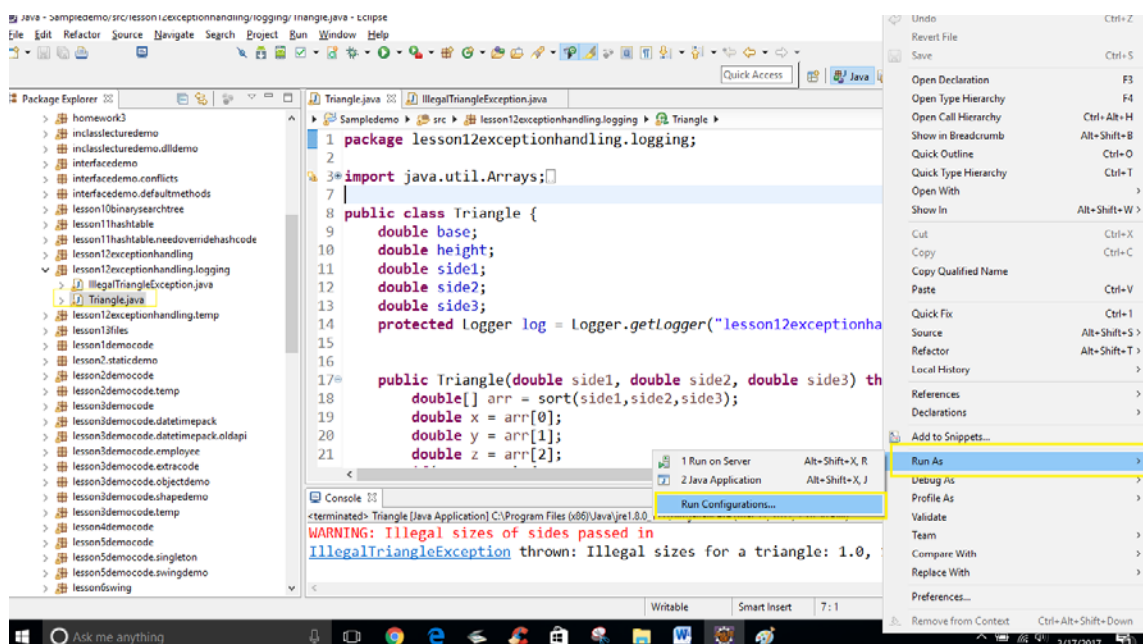
```
java.util.logging.FileHandler.pattern
```

in a way that is similar to the following: (use forward slashes)

```
java.util.logging.FileHandler.pattern =
    E:/ReMo/FPP-Coding/Sampledemo/src/logs/java%u.log
```
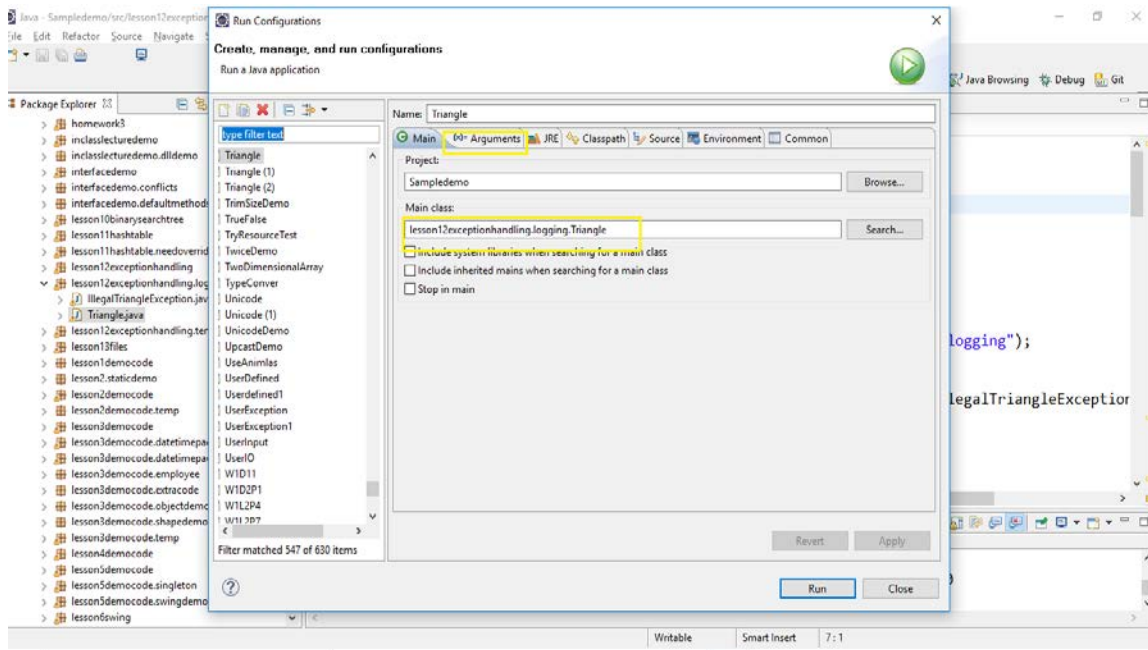

Step : 6 – Right click on your Triangle.java file and choose Run As -> Run Configurations
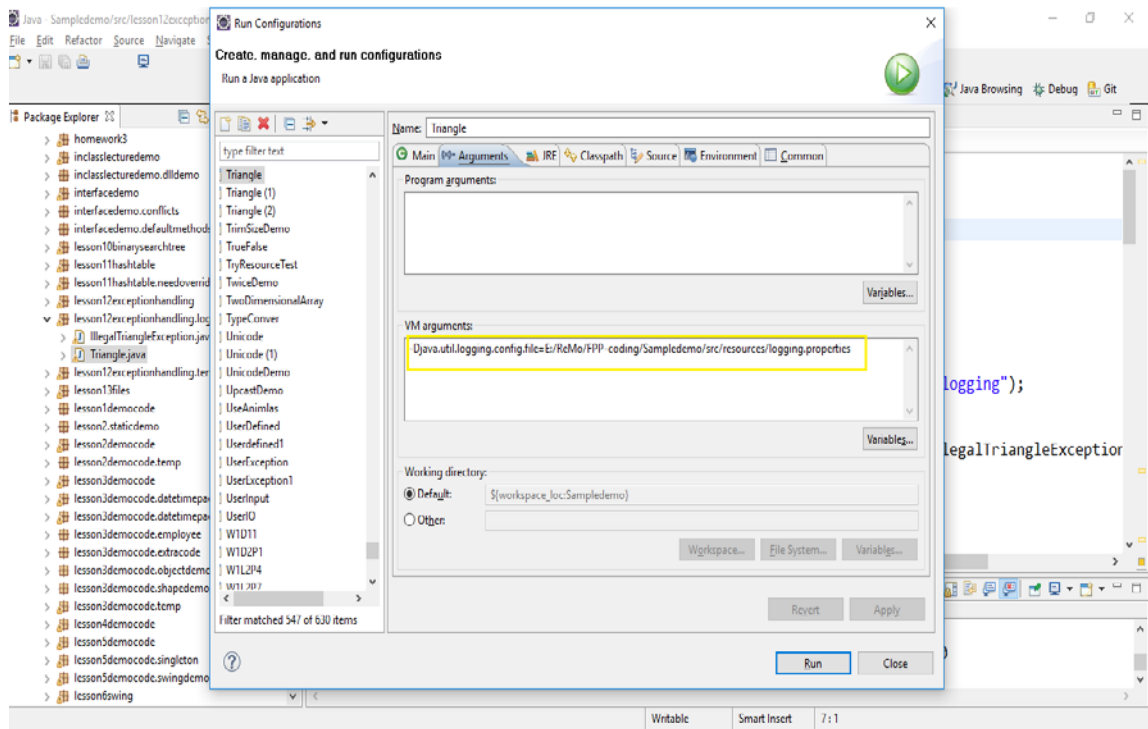
Step 7 : Make sure your Main class is Traingle.java or else modify the Main Class in the given screen shot and then click on the Arguments tab.
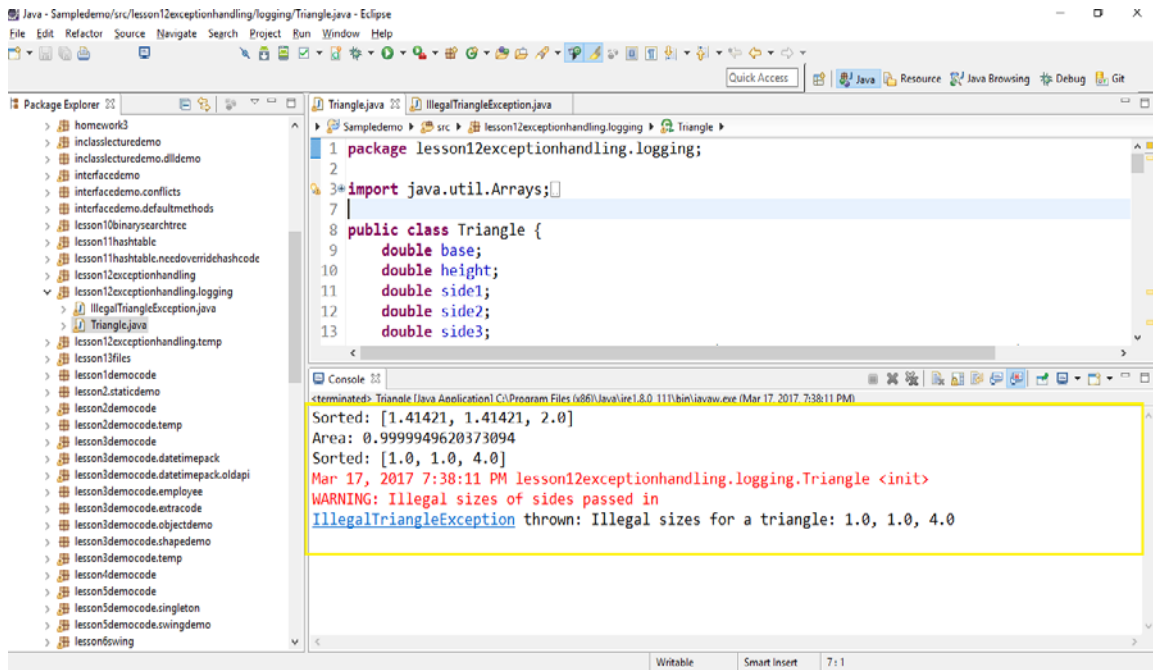

Step : 8 In the Arguments tab, type into the VM Arguments area something like the following line: (forward slashes should be used – *no spaces*)

-Djava.util.logging.config.file=E:/ReMo/FPP-coding/Sampledemo/src/resources/logging.properties

Step : 9 Run your Traingle.java. You will get the screen as below mentioned

Step 10 : To see the logs file click the specific java0.log.0 or java0.log.1. Waring message exceptions, date and time are registered in the logs.