Lesson 18: Java Programming Activity 1

Title: Printer Lesson: Threads Duration: 30 minutes

Instructions: Design a Java program where a printer is able to print different kinds of documents.

Project Filename: <FamilyName> L18Activity1

Task 1: In the Printer class (only choose one if it extends Thread or it implements Runnable) where it has a parameterized constructor that initializes the name of the document with a String field.

The class also has a private function called **printDocuments()**, which will display the status of the document if it is Printing or is Finished printing. The printing of the documents must have a delay of 2 secs.

In addition, a run () function that invokes the printDocuments () function.

Task 2: In the main() function in the Main class where two threads, each assigned with different documents, are instantiated. Using the instantiated threads, it will invoke the start() function to start printing the two documents.

Do not forget to end/terminate the threads <code>Hint: join()</code>, and check if the instantiated threads are still alive (label it as "running") or not (label it as "terminated") <code>Hint: isAlive()</code>

If you wish to implement Lambda in your code structure, you may do so as long as you follow the aforementioned requirements and sample output below.

Output:

```
Printing: Manuscript_Final.pdf
Printing: Manuscript_Final_Final.pdf

Thread-1 status: running

Finished printing: Manuscript_Final.pdf

Thread-0 status: running

Finished printing: Manuscript_Final_Final.pdf

Thread has ended.
Thread-0 status: terminated

Thread-1 status: terminated
```

Hint: getName() or getId() for the specific identity of threads (e.g. Thread-1 and Thread-0)