January 8, 2021

Task 11

Create a class **Letters** which will be used to run several threads parallely. The constructor of class **Letters** takes a string, subsequent letters of which will be printed by separate threads (as many threads as are letters in the string; each thread prints 'its' letters every second).

The **main** function (of a separate class) creates one object of the class **Letters**, then it starts all threads, sleeps for 5 seconds, and then terminates all the threads, as shown below (do not modify it):

download *SLettersThread.java*

```
public static void main(String[] args) {
    Letters letters = new Letters("ABCD");
    for (Thread t : letters)
        System.out.println(t.getName() + " starting");
    letters.start();
    try { Thread.sleep(5000); }
    catch(InterruptedException ignore) { }
    letters.stop();
    System.out.println("\nProgram completed.");
}
```

The program should write something like:

```
Thread A starting
Thread B starting
Thread C starting
Thread D starting
ACDBDBACACDBCBDA
Program completed.
```

Important:
The methods **stop**, **resume**, **suspend** and **destroy** from the **Thread** class are inherently unsafe and must not be used!

Deadline: Jan 16 (inclusive)
