

## TUTORIAL 1 :

### THE CODE:

SimpleThreads.java

```
public class SimpleThreads {  
  
    static void threadMessage(String message) { 7 usages  
        String threadName =  
            Thread.currentThread().getName();  
        System.out.format("%s: %s%n",  
            threadName,  
            message);  
    }  
  
    private static class MessageLoop 1 usage  
        implements Runnable {  
        public void run() {  
            String importantInfo[] = {  
                "Mares eat oats",  
                "Does eat oats",  
                "Little lambs eat ivy",  
                "A kid will eat ivy too"  
            };  
            try {  
                for (int i = 0;  
                    i < importantInfo.length;  
                    i++) {  
                        Thread.sleep(4000);  
                        threadMessage(importantInfo[i]);  
                    }  
            } catch (InterruptedException e) {  
                threadMessage("I wasn't done!");  
            }  
        }  
    }  
}
```

```

    }
}

public static void main(String args[])
    throws InterruptedException {
    long patience = 1000 * 60 * 60;

    if (args.length > 0) {
        try {
            patience = Long.parseLong(args[0]) * 1000;
        } catch (NumberFormatException e) {
            System.err.println("Argument must be an integer.");
            System.exit( status: 1);
        }
    }

    threadMessage("Starting MessageLoop thread");
    long startTime = System.currentTimeMillis();
    Thread t = new Thread(new MessageLoop());
    t.start();
    threadMessage("Waiting for MessageLoop thread to finish");

    while (t.isAlive()) {
        threadMessage("Still waiting...");

        t.join( millis: 1000);
        if (((System.currentTimeMillis() - startTime) > patience)

```

```

            && t.isAlive()) {
                threadMessage("Tired of waiting!");
                t.interrupt();
                t.join();
            }
        }
        threadMessage("Finally!");
    }
}

```

## THE OUTPUT:

```
main: Starting MessageLoop thread
main: Waiting for MessageLoop thread to finish
main: Still waiting...
main: Still waiting...
main: Still waiting...
main: Still waiting...
Thread-0: Mares eat oats
main: Still waiting...
main: Still waiting...
main: Still waiting...
main: Still waiting...
Thread-0: Does eat oats
main: Still waiting...
main: Still waiting...
main: Still waiting...
main: Still waiting...
Thread-0: Little lambs eat ivy
main: Still waiting...
main: Still waiting...
main: Still waiting...
main: Still waiting...
Thread-0: A kid will eat ivy too
main: Finally!

Process finished with exit code 0
```