**Question 1: Write a Java program that does the following:**

Write data to file **"number.txt"** with:

- The first line writes a random number n (with 10 <= n <= 100)

- Each subsequent line writes a random positive integer from 1 to 500

**Question 2: Write another Java program to do the job:**

Using 3 threads:

- The first thread every second will read the data as a number in the file "number.txt" after the first n value

If the number read is even, then switch to thread 2

If the number read is odd, then switch to thread 3

-Thread 2:

As soon as it receives the number just read from thread 1, it will print all the divisors of this number

Example: Thread -2: 18 = 1, 2, 3, 6, 9, 18

- Thread 3:

As soon as it receives the number just read from thread 1, it will display the square of that number

Synchronize these 3 threads (use synchronized)