

```
4 public class ParallelUniverseExplorer1 {
5     private static final ForkJoinPool pool = new ForkJoinPool();
6     private static final List<String> sequentialTimeline = List.of(
7         "Big Bang",
8         "Formation of Galaxies",
9         "Birth of Solar System",
10        "Origin of Life",
11        "Human Civilization"
12    );
13    private static final List<String> parallelTimelines = List.of(
14        "Universe A",
15        "Universe B",
16        "Universe C",
17        "Universe D",
18        "Universe E"
19    );
20    public static void main(String[] args) {
21        System.out.println("Sequential Timeline Exploration\n");
22        exploreSequentialTimeline();
23        System.out.println("\n Parallel Timeline Exploration \n");
24        exploreParallelTimelines();
25    }
26    private static void exploreSequentialTimeline() {
27        sequentialTimeline.stream()
28            .forEach(event -> {
29                System.out.println("Exploring Event : " + event);
30                System.out.println("Thread Name : " + Thread.currentThread().getName());
31                simulateTask();
32                System.out.println("-----");
33            });
34    }
35    private static void exploreParallelTimelines() {
36        parallelTimelines.parallelStream()
37            .forEach(timeline -> {
38                System.out.println("Exploring Timeline : " + timeline);
39                System.out.println("Thread Name : " + Thread.currentThread().getName());
40                simulateTask();
41                System.out.println("-----");
42            });
43    }
44    private static void simulateTask() {
45        try {
46            Thread.sleep(500);
47        } catch (InterruptedException e) {
48            Thread.currentThread().interrupt();
49        }
50    }
51 }
```

<terminated> ParallelUniverseExplorer1 [Java Application] C:\Program Files\Java\jdk-21

Sequential Timeline Exploration

Exploring Event : Big Bang

Thread Name : main

Exploring Event : Formation of Galaxies

Thread Name : main

Exploring Event : Birth of Solar System

Thread Name : main

Exploring Event : Origin of Life

Thread Name : main

Exploring Event : Human Civilization

Thread Name : main

Parallel Timeline Exploration

Exploring Timeline : Universe C

Thread Name : main

Exploring Timeline : Universe B

Thread Name : ForkJoinPool.commonPool-worker-1

Exploring Timeline : Universe A

Thread Name : ForkJoinPool.commonPool-worker-3

Exploring Timeline : Universe E

Thread Name : ForkJoinPool.commonPool-worker-2

Exploring Timeline : Universe D

Thread Name : ForkJoinPool.commonPool-worker-4