

### Task 1: Creating and Managing Threads

Write a program that starts two threads, where each thread prints numbers from 1 to 10 with a 1-second delay between each number.

```
package Day_18;

public class NumberPrinter implements Runnable {
    private String threadName;

    public NumberPrinter(String threadName) {
        this.threadName = threadName;
    }

    @Override
    public void run() {
        for (int i = 1; i <= 10; i++) {
            System.out.println(threadName + ": " + i);
            try {
                Thread.sleep(1000); // Sleep for 1 second
            } catch (InterruptedException e) {
                Thread.currentThread().interrupt();
                System.out.println(threadName + " interrupted");
            }
        }
    }

    public static void main(String[] args) {
        Thread thread1 = new Thread(new NumberPrinter("Thread 1"));
        Thread thread2 = new Thread(new NumberPrinter("Thread 2"));

        thread1.start();
        thread2.start();
    }
}
```

```
5     private String threadName;
6
7     public NumberPrinter(String threadName) {
8         this.threadName = threadName;
9     }
10
11     @Override
12     public void run() {
13         for (int i = 1; i <= 10; i++) {
14             System.out.println(threadName + ": " + i);
15             try {
16                 Thread.sleep(1000); // Sleep for 1 second
17             } catch (InterruptedException e) {
18                 Thread.currentThread().interrupt();
19                 System.out.println(threadName + " interrupted");
20             }
21         }
22     }
23
24     public static void main(String[] args) {
25         Thread thread1 = new Thread(new NumberPrinter("Thread 1"));
26         Thread thread2 = new Thread(new NumberPrinter("Thread 2"));
27
28         thread1.start();
29         thread2.start();
30     }
31 }
32
33
```

Outline

- Day\_18
  - NumberPrinter
    - threadName : String
    - NumberPrinter(String)
    - run() : void
    - main(String[]): void

Markers Properties Terminal Console Coverage

<terminated> NumberPrinter [Java Application] C:\Users\Nikita\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_16.0.2.v20210721-1149\jre\bin\javaw.exe (Jun 4, 2024, 4:56:43 PM - 4:56:55 PM)

Thread 2: 7  
Thread 1: 7  
Thread 2: 8  
Thread 1: 8  
Thread 2: 9  
Thread 1: 9  
Thread 2: 10  
Thread 1: 10