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.
ANS:

```
package com.Day23;
class PrintNumbers implements Runnable {
  private String threadName;
  public PrintNumbers(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); // 1-second delay
      } catch (InterruptedException e) {
        System.out.println(threadName + " interrupted.");
      }
    }
  }
}
public class Task1 {
  public static void main(String[] args) {
    // Create two runnable instances
    Runnable printTask1 = new PrintNumbers("Thread 1");
    Runnable printTask2 = new PrintNumbers("Thread 2");
    // Create two threads
    Thread thread1 = new Thread(printTask1);
    Thread thread2 = new Thread(printTask2);
    // Start the threads
    thread1.start();
    thread2.start();
    // Wait for both threads to complete
    try {
      thread1.join();
      thread2.join();
    } catch (InterruptedException e) {
      System.out.println("Main thread interrupted.");
    }
    System.out.println("Both threads have finished execution.");
  }
}
```

OUTPUT

```
Thread 1: 1
Thread 2: 1
Thread 2: 2
Thread 1: 2
Thread 2: 3
Thread 1: 3
Thread 1: 4
```

Thread 2: 4
Thread 1: 5
Thread 2: 5
Thread 2: 6
Thread 1: 6
Thread 1: 7
Thread 2: 7
Thread 2: 8
Thread 1: 8
Thread 1: 9
Thread 2: 9
Thread 1: 10
Thread 2: 10
Both threads have finished execution.