Learning Objectives in this Part of the Module

- Understand the Java thread lifecycle & its various states
- Recognize the steps involved in starting a Java thread
- Know various ways to stop Java threads
- Learn how the GCD Interrupted program works

Runtime Behavior of the GCD Interrupted App
Runtime Behavior of the GCD Interrupted App

- Use a thread to compute the greatest common divisor (GCD) of two numbers, which is the largest positive integer that divides two integers without a remainder.

The user can interrupt the GCD computation at any point.
Implementation of the GCD Interrupted App
Implementation of the GCD Interrupted App

- This app showcases the Java Thread start() & interrupt() methods

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Super class that automatically logs lifecycle hook method invocations to aid debugging.
Implementation of the GCD Interrupted App

- This app showcases the Java Thread start() & interrupt() methods

Start & interrupts a Java thread that repeatedly computes the GCD of two random numbers
Implementation of the GCD Interrupted App

- This app showcases the Java Thread start() & interrupt() methods

Runs in a thread repeatedly computing the GCD of two numbers in a manner that can be interrupted.
End of Managing the Java Thread Lifecycle (Part 5)