Java SE: Programming II

Learn via: **Classroom / Virtual Classroom / Online**

Duration: **5 Gün**

https://bilginc.com/tr/egitim/java-se-programming-ii-4209-egitimi/

Overview

Java SE: Programming II eğitimi, Java dilini öğrenmek isteyen katılımcılar için ikinci seviye bir eğitimdir. Önceki eğitim olan Java SE: Programming I'de öğretilen konuları tamamlarken aynı zamanda Java programcılarına güvenli kodlama, modüler programlama ve veritabanı erişimi gibi ek temel beceriler kazandırır.

Bu eğitimde, uygulamalar için son Java sürümü kullanılır.

Prerequisites

Java SE: Programming I Eğitimi

Who Should Attend

- Veri Bilimciler (Data Scientists)
- Geliştiriciler (Developers)
- Uygulayıcılar (Implementers)

What You Will Learn

- Create Java applications that leverage the object-oriented features of the Java language, such as encapsulation, inheritance, and polymorphism
- Execute a Java application from the command line
- Create applications that use the Java Collections framework
- Search and filter collections using Lambda Expressions
- Implement error-handling techniques using exception handling
- Implement input/output (I/O) functionality to read from and write to data and text files
- Manipulate files, directories and file systems using the JDK NIO.2 specification
- Perform multiple operations on database tables, including creating, reading, updating and deleting using both JDBC and JPA technology
- Use Lambda Expression concurrency features
- Apply modular programming practices and services to applications
- Create high-performing multi-threaded applications

Outline

Functional Programming

- Functional Interfaces and Lambda Expressions
- Collections Streams, and Filters
- Built-in Functional Interfaces

Modular Programming

- Introduction to Modular Programming in Java
- Services in a Modular Application
- Migration to a Modular Application

Streams and Parallel Streams

- Concurrency
- Parallel Streams

- Terminal Operations: Collectors
- Creating Custom Streams

Java API Programming and Secure Coding Concepts

- I/O (Fundamentals and NIO2)
- Secure Coding
- Database Applications with JDBC
- Localization

Collections and Generics

- What is the Collections Framework?
- Iterators
- Type-Wrapper Classes
- What are Generics?

Exception Handling and Assertions

- Exceptions
- Error handling
- Assertions