Core Java 8
Lesson 00: Java SE 8

Capgemini

Course Goals and Non Goals

- Course Goals
  - Implementing OOPs features in Java
  - Developing Java Desktop Applications
  - Use of Core JDK 1.8 API
  - Testing using Junit 4
  - Implementing Multithreading
- Course Non Goals
  - Developing GUI applications

Pre-requisites

Basic Programming Concepts
OOPs
XML

Intended Audience

Developers new to Java technology

Day Wise Schedule

Day 1
- Lesson 1:Introduction to Java
- Lesson 2: Eclipse 4.4 (Luna) as an IDE
- Lesson 3: Language Fundamentals
- Lesson 4: Classes and Objects

Day 2
- Lesson 5: Exploring Basic Java Class Libraries
- Lesson 6: Inheritance and Polymorphism

Day 3
- Lesson 7: Abstract Classes and Interfaces
- Lesson 8: Regular Expressions

Day 4
- Lesson 9 : Exception Handling
- Lesson 10: Array

Day 5
- Lesson 11: Collection
- Lesson 12: Generics

Day Wise Schedule

Day 6
- Lesson 13: File IO
- Lesson 14: Introduction to Junit 4

Day 7
- Lesson 15: Property Files
- Lesson 16: Java Database Connectivity (JDBC 4.0)

Day 8
- Lesson 17: Introduction to Layered Architecture
- Lesson 18: Advanced Testing

Day 9
- Lesson 19: Logging with Log4J
- Lesson 20: Multithreading

Day 10
- Lesson 21: Lambda Expressions
- Lesson 22: Stream API

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References

Books:

- Java, The Complete Reference; by Herbert Schildt
- Thinking in Java; by Bruce Eckel
- Beginning Java 8 Fundamentals by Kishori Sharan

Websites:

- Java home page: http://java.sun.com/
- JDK 1.8 documentation: http://docs.oracle.com/javase/8/docs/
- Multithreading : https://docs.oracle.com/javase/tutorial/essential/concurrency/index.html

Next Step Courses

Servlets
JSP

Other Parallel Technology Areas

C ++
C#.Net
Visual Basic.Net