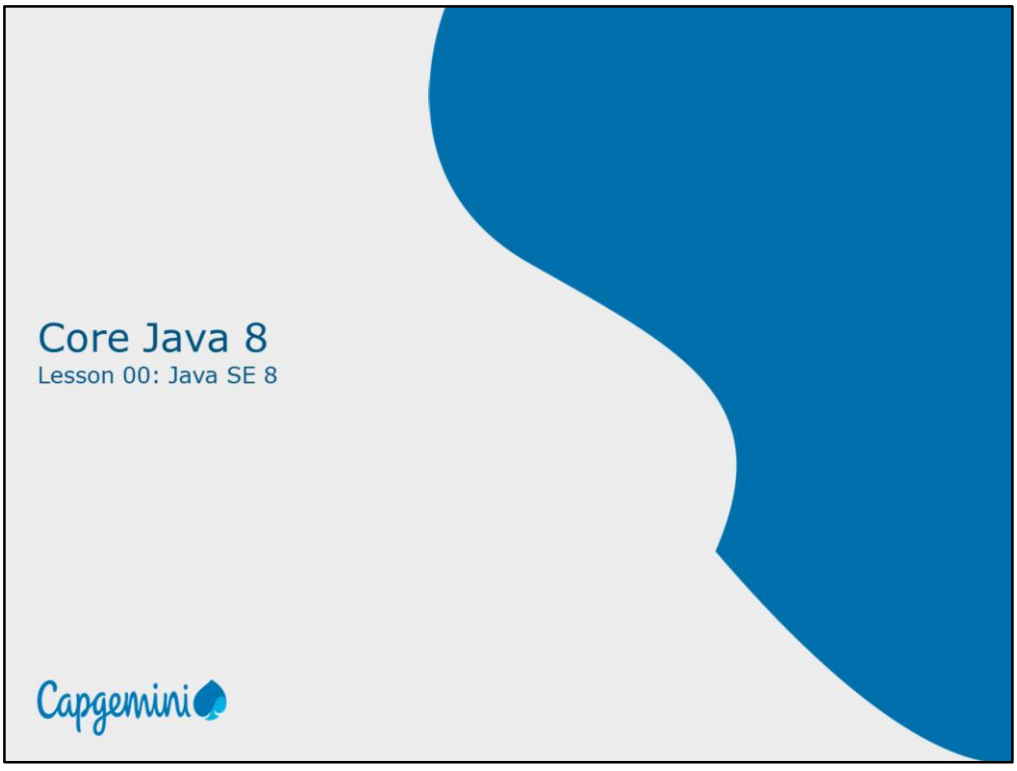
Core Java 8
Lesson 00: Java SE 8
Capgemini

Course Goals and Non Goals

➢Course Goals

- Implementing OOPs features in Java
- Developing Java Desktop Applications
- Use of Core JDK 1.8 API including JDBC 4.0
- Testing using Junit 4
- Implementing Multithreading

➢Course Non Goals

- Developing GUI applications

Pre-requisites

- Basic Programming Concepts
- OOPs
- DBMS/SQL
- XML

Intended Audience

Developers new to Java technology

Day Wise Schedule

Day 1

- Lesson 1: Introduction to Object-Oriented technology
- Lesson 2: Objects and Classes
- Lesson 3: Principles in Object-Oriented technology
- Lesson 4: Some more concepts in OOP

Day 2

- Lesson 5:Introduction to Java
- Lesson 6: Eclipse 4.4 (Luna) as an IDE
- Lesson 7: Language Fundamentals

Day 3

- Lesson 8:Classes and Objects
- Lesson 9: Exploring Basic Java Class Libraries

Day Wise Schedule

Day 4

- Lesson 10: Inheritance and Polymorphism
- Lesson 11: Abstract Classes and Interfaces

Day 5

- OCA Preparation on Basic Concepts

Day 6

- Lesson 12 : Exception Handling

Day 7

- Lesson 13: Array
- Lesson 14: Collection

Day Wise Schedule

Day 8

- Lesson 14:Collection Continue..

Day 9

- Lesson 14:Collection Continue..
- Lesson 15 : Generics

Day 10

- OCA Preparation on Collection and Practice

Day 11

- Lesson 16: Multithreading
- Lesson 17: File IO

Day Wise Schedule

Day 12

- Lesson 18: Property Files
- Lesson 19: Introduction to Junit

Day 13

- Lesson 20: Lambda Expression
- Lesson 21: Stream API

Day 14

- OCA Preparation on Collection and Practice

Day 15

- OCA Preparation

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Lesson 7: Language Fundamentals

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Lesson 15: Generics

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Lesson 16 : Multithreading

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Lesson 17 : File IO

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Lesson 18 : Property Files

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Lesson 19 : Introduction to Junit 4

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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