# Core Java 8

Java SE 8

Capgemini

# Course Goals and Non Goals

## ➢Course Goals

- Implementing OOPs features in Java
- Developing Java Desktop Applications
- Testing using Junit 4
- Implementing Multithreading

## ➢Course Non Goals

- Developing GUI applications

# Pre-requisites

- Basic Programming Concepts
- OOP

# Intended Audience

Developers new to Java technology

# Day Wise Schedule

## Day 1:

- Lesson 1: Declarations and Access Control
- Lesson 2: Object Orientation

## Day 2:

- Lesson 3: Assignments
- Lesson 4: Operators

## Day 3 :

- Lesson 5: Flow Control, Exceptions

## Day 4:

- Lesson 6: Maven Fundamentals
- Lesson 7 :TDD using junit 5

# Day Wise Schedule

## Day 5:

- Lesson 7: TDD using junit 5
- Lesson 8: Strings ,I/O Formatting and Parsing

## Day 6:

- Lesson 9:Generics And Collections

## Day 7:

- Lesson 10: Threads
- OCJP Preparation

## Day 8:

- Lesson 11: Concurrent Patterns in Java
- OCJP Preparation

## Day 9 :

- Lesson 12: Concurrent Collections

## Day 10

- Lesson 13: Lambda Expression
- Lesson 14: Stream API

## Day 11

- Lesson 15 : Layered Architecture

## Day 12 and 13

Parallel project orientation and Implementation

## Day 14 :

Parallel Project and OCJP

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## Lesson 1: Declarations And Access Control

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## Lesson 2: Object Orientation

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## Lesson 3: Assignments

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## Lesson 5: Continues…



## Lesson 6 : Maven Fundamentals

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## Lesson 7: TDD with Junit 5

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## Lesson 8 : Strings, I/O Formatting and Parsing

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## Lesson 9: Generics And Collections

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## Lesson 10:Threads

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## Lesson 11: Concurrent Patterns in Java

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## Lesson 12: Concurrent Collections in Java

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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