



THE CRIMSON ADVANTAGE

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Java Application Development – Course Plan

Compiled By

Crimson Computing Solutions

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No of Sessions: 8

Duration : 2*8 = 16 Hours Of Instruction

About the Trainers

Praveen George is the Co-Founder and Principal Consultant for Crimson Computing Solutions. He is also a social media enthusiast and an author on topics including Enterprise Application Development, Mobile Enablement etc. He co founded mobchannel.com the Social Solutions Hub which became a finalist in the 2010 PayPal Development contest.

Nicy Chacko is a Sun Certified Java Programmer and Oracle Certified SQL Developer. She specializes in developing interactive voice response systems. She co founded mobchannel.com the Social Solutions Hub which became a finalist in the 2010 PayPal Development contest .She previously worked with Tata Consulting Services.

Course Description

This course is intended to provide a quick start to Java Programming, this course will enable one to gain a solid understanding of basic concepts of Java. The course is focused on practical training and hands on experience through interactive webex based sessions. Java Programming, Eclipse IDE, Ant, developing Java on Linux and OSX will be explained. Sample code and configurations would be provided as part of the training and users would be given full access to the source code used for training

Reference Book

Fruitful Java Programming by Praveen George & Nicy Chacko

Book purchases can be made online from

<http://www.crimsoncomputing.com/university/books/enterpriseapp/>

Prerequisites:

Exposure to Computer Science or related fields. Familiarity with Programming in at least one other programming language



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1. Introduction to Java Programming.

- Who this course is intended for
- What topics are covered in this course
- Software required to use this course effectively
- Your first java Application
- Java source file and java class files
- Java Compiler and JVM
- Creating a new project using the eclipse IDE
- Developing java on Windows/Linux/OSX

2. Java Programming basics

- Java Classes & Packages
- Variables & Access specifiers
- Strings ,Numbers and basic types
- Arrays
- Operators
- Functions & Access specifiers
- Flow control statements
- Interfaces, inheritance, polymorphism

3 J2SE APIs

- The java utils package
- Java I/O interfaces & classes
- Collections
- Generics
- Swing
- AWT

4. Advanced concepts

- Reflection
- Dynamic class loading
- JDK Dynamic Proxies
- Threads and Concurrency
- Java Logging
- Setting up the Debugging Environment
- ANT
- Packaging and deployment