



SCALA DEVELOPMENT COURSE CURRICULUM

Scala Basics

- ➢ What is Scala?
- Intro to Scala REPL
- Installing Scala IDE
- Basic Operations
- > Type Inference
- Block expression
- Lazy values
- Defining Functions
- Defining Procedures
- Control Structures in Scala
- > Loops ForEach, For, While, Do-While, For Comprehension
- Collections Array, ArrayBuffer, Map, Tuples, Lists, ListBuffer, Sets, Sequnce, Vector
- Conditional Operators
- ➢ Enumerations

Object Oriented Programming

- Class and Object Basics
- Inheritance in Scala
- Scala Constructors (Auxiliary & Primary)
- ➢ Singletons
- Companion Objects
- Nested Classes
- Case Classes
- Packages & Visibility Rules
- Overriding Methods
- ➤ Traits
 - Interfaces
 - Layered Traits





Functional Programming

- Functional programming Approach
- Higher Order Functions
 - map
 - filter
 - reduceLeft and reduceRight
 - sortWith
 - folding and scanning etc...
- Anonymous Functions
- Function Currying

Course Deliverables

- ➢ Workshop style coaching
- > Interactive approach
- ➢ Course material
- ➢ Hands on practice exercises for each topic
- Quiz at the end of each major topic