

Core Java & Adv – Java Course Content

CORE JAVA:

Introduction

- Why Java
- Diff b/w Java & Other (C, C++)
- Java history
- Java features
- Java programming format
- Java Tokens
- Java Statements
- Java Data Types
- Typecasting
- Arrays
- Java coding standard
- JVM

II. OOPS

- Introduction
- Class
- Object
- Static Keywords
- Constructors
- This Key Word
- Inheritance
- Super Key Word
- Polymorphism (Over Loading & Over Riding)
- Abstraction
- Encapsulation
- Abstract Classes
- Interfaces

III. STRING MANIPULATIONS

- Gel-pString
- String Buffer
- String Tokenizer

IV. PACKAGES

- Introduction to all predefined packages
- User Defined Packages
- Access Specifiers

V. EXCEPTION HANDLING

- Introduction
- Pre Defined Exceptions
- Try-Catch-Finally
- Throws, throw
- User Defined Exception examples

VI. MULTITHREADING

- Thread Creations
- Thread Life Cycle
- Life Cycle Methods
- Synchronization
- Wait() notify() notify all() methods

VII. I/O STREAMS

- Introduction
- Byte-oriented streams
- Character – oriented streams
- File
- Random-access file
- Serialization

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VIII. NETWORKING

- Introduction
- Socket, Server socket
- Client –Server Communication

IX. WRAPPER CLASSES

- Introduction
- Byte, Short, Integer, Long, Float, Double, Character, Boolean classes.

X. COLLECTION FRAME WORK

- Introduction
- Util Package interfaces, List, Set, Map
- List interface & its classes
- Set interface & its classes
- Map interface & its classes

XI. INNER CLASSES

- Introduction
- Member inner class
- Static inner class
- Local inner class
- Anonymous inner class

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ADVANCED JAVA COURSE CONTENT:

JDBC

- Introduction
- Jdbc Architecture
- Types of Drivers
- Statement
- ResultSet
 - Read Only ResultSet
 - Updatable ResultSet
 - Forward Only ResultSet
 - Scrollable ResultSet
- PreparedStatement
- Connection Modes
- SavePoint
- Batch Updates
- CallableStatement
- BLOB & CLOB

SERVLETS

- Introduction
- Web application Architecture
- Http Protocol & Http Methods
- Web Server & Web Container
- Servlet Interface
- GenericServlet
- HttpServlet
- Servlet Life Cycle
- ServletConfig
- ServletContext

- Servlet Communication
- Servlet-Browser communication
 - sendError
 - setHeader
 - sendRedirect
- Web-component Communication
 - Forward
 - Include
- Session Tracking Mechanisms
 - HttpSession
 - Cookies
 - URL-Rewriting
 - Hidden-Form Fields
- Filters & Wrappers
- Listeners
- Web-Security

III.JSP

- Introduction
- Jsp LifeCycle
- Jsp Implicit Objects & Scopes
- Jsp Directives
 - page
 - include
 - taglib
- Jsp Scripting Elements
 - declaratives
 - scriptlets
 - expressions

➤ Jsp Actions

Standard Actions

- useBean tag
 - setProperty tag
 - getProperty tag
 - include tag
 - forward tag
 - param tag
 - plug-in tag
 - params tag
 - fallback tag
 - directives tag
 - scriptlet tag
 - expression tag
 - Custom Actions
 - Classic Tags
 - Simple Tags
- JSTL & Tag Library
- IDE
- MyEclipse
- Eclipse

SERVERS

- Tomcat
- Weblogic
- JBOSS

VI.DATABASE

- Oracle

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