

Cloud Cave Technologies

Java Syllabus

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I. Introduction

1. Why Java
2. Paradigms
3. Diff b/w Java & Other (C,C++)
4. Java history
5. Java features
6. Java programming format
7. Java Tokens
8. Java Statements
9. Java Data Types
10. Typecasting
11. Arrays

II. OOPS

1. Introduction
2. Class
3. Object
4. Static Keywords
5. Constructors
6. This Key Word
7. Inheritance
8. Super Key Word
9. Polymorphism (Over Loading & Over Riding)
10. Abstraction
11. Encapsulation
12. Abstract Classes
13. Interfaces

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III. STRING MANIPULATIONS

1. String
2. String Buffer & String Builder
3. String Tokenizer

IV. PACKAGES

1. Introduction to all predefined packages
2. User Defined Packages
3. Access Specifiers

V. EXCEPTION HANDLING

1. Introduction
2. Pre Defined Exceptions
3. Try-Catch-Finally
4. Throws, throw
5. Try with resources
6. User Defined Exception examples

VI. MULTITHREADING

1. Thread Creations
2. Thread Life Cycle
3. Life Cycle Methods
4. Synchronization
5. Wait() notify() notify all() methods

VII. I/O STREAMS

1. Introduction
2. Byte-oriented streams
3. Character – oriented streams
4. File
5. Random-access file
6. Serialization

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VIII. WRAPPERCLASSES

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

IX. INNER CLASSES

1. Introduction
2. Member inner class
3. Static inner class
4. Local inner class
5. Anonymous inner class

X. COLLECTION FRAME WORK

1. Introduction
2. Util Package interfaces, List, Set, Map
3. List interface & its classes
4. Set interface & its classes
5. Map interface & its classes

XI. Java 8 and java 11 Features

XII. AWT

1. Introduction
2. Components
3. Event-Delegation-Model
4. Listeners
5. Layouts
6. Individual components Lable, Button, CheckBox, Radio Button.
7. Choice, List, Menu, Text Field, Text Area

XIII. SWING(JFC)

1. Introduction Diff b/w awt and swing
2. Components hierarchy
3. Panes
4. Individual Swings components Jlabel
5. JButton, JtextField, JTextAres.

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Advanced-Java

I. JDBC

1. Introduction
2. Jdbc Architecture
3. Types of Drivers
4. Statement
5. ResultSet
 - 1.Read Only ResultSet
 - 2.Updatable ResultSet
 - 3.Forward Only ResultSet
 - 4.Scrollable ResultSet
6. PreparedStatement
7. Connection Modes
8. SavePoint
9. Batch Updations
10. CallableStatement
11. BLOB & CLOB

II. SERVLETS

1. Introduction
2. Web application Architecture
3. Http Protocol & Http Methods
4. Web Server & Web Container
5. Servlet Interface
6. GenericServlet
7. HttpServlet
8. Servlet Life Cycle
9. ServletConfig
10. ServletContext

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11. Servlet Communication

a) . Servlet-Browser communication

- i. sendError
- ii. setHeader
- iii. sendRedirect

b). Web-component Communication

- i. Forward
- ii. Include

c). Servlet-Applet Communication

12. Session Tracking Mechanisms

- a) HttpSession
- b) Cookies
- c) URL-Rewriting
- d) Hidden-Form Fields

13.Filters & Wrappers

14.Listeners

15.Web-Security

III. JSP

1. Introduction

2. Jsp LifeCycle

3. Jsp Implicit Objects & Scopes

4. Jsp Directives

- a. page
- b. include
- c. taglib

5. Jsp Scripting Elements

- a. declaratives
- b. scriptlets
- c. expressions

6. Jsp Actions

- a). Standard Actions

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- i. useBean tag
- ii. setProperty tag
- iii. getProperty tag
- iv. include tag
- v. forward tag
- vi. param tag
- vii. plug-in tag
- viii. params tag
- ix. fallback tag
- x. directives tag
- xi. scriptlet tag
- xii. expression tag

b).Custom Actions

- i. Classic Tags
- ii. Simple Tags

7. JSTL & Tag Library

IV. IDE

- 1. Eclipse

V. SERVERS

- 1. Tomcat