

# Advance JAVA



## 1. Java Database Connectivity (JDBC)

- A. Overview of RDBMS
- B. Introduction JDBC
- C. JDBC Architecture
- D. Types of JDBC Drivers
- E. Establishing a JDBC Connection
- F. Using Statement
- G. Using PreparedStatement
- H. Using CallableStatement
- I. Using ResultSet
- J. Batch Updation
- K. Inserting & Fetching from BLOB Columns
- L. Managing Transactions in JDBC
- M. AutoIncrement Columns

## 2. Common Gateway Interface

- A. Introduction CGI
- B. Understanding Environment Variables
- C. Disadvantages and Limitations of CGI

## 3. Servlets

- A. Servlet as J2EE Web Component
- B. Servlet as an improved CGI
- C. Servlet Fundamentals / API
- D. What is a Web-Container
- E. Servlet Life Cycle / Architecture
- F. HTTP GET and POST Request Methods
- G. Processing Html Forms
- H. What is Name-Value pair
- I. Content Types and MIME
- J. Configuration of Web Application

## 4. Understanding the Deployment Descriptor (DD) / web.xml

- A. Specifying the Welcome file list
- B. Servlet URL Pattern Mapping
- C. Init Parameters
- D. State Management

## 5. HTTP Session

- A. Using Cookies
- B. Using Hidden form field
- C. Using HttpSession object
- D. Using URL rewriting

## 6. JavaServer Pages (JSP)

- A. JSP Architecture
- B. JSP Standard / Implicit Objects
- C. Request
- D. Response
- E. Out
- F. Config
- G. Application
- H. Session
- I. Page
- J. pageContext
- K. Exception
- L. JSP Page Implementation Class
- M. JSP Basics & Syntax
- N. JSP Directive Tags
- O. Page Directive
- P. Include Directive
- Q. Taglib Directive
- R. JSP Action Tags

## 7. Forward Action Tag

- A. Include Action Tag
- B. JSP Script related Tags
- C. Scriptlet Tag
- D. Expression Tag
- E. Declaration Tag
- F. Using Java Beans from JSP
- G. UseBean Tag
- H. setProperty Tag
- I. getProperty Tag