

Advance Java :- 25 days --- 25 hrs

JDBC

- Introduction to JDBC
- JDBC Architecture
- Driver Manager, Driver, Connection, Statement, result Set
- Prepared Statement Callable Statement
- ResultSetMetaData Database Metadata
- JDBC Drivers

Hibernate

- DAO
- Features of ORM Framework
- Hibernate Framework
- Examples on basic CRUD [Create Read Update Delete] Operations
- Examples on Inheritance
- Relationships
- HQL
- Query by Criteria Query by Example.

Spring

- Difference between Lightweight and Heavy weight Containers
- Inversion of Control Pattern
- IoC Container
- Spring Containers
- Simple Spring Examples
- Spring DAO
- Spring MVC
- Spring Hibernate
- Spring Struts
- Struts-Spring-Hibernate

Struts

- MVC, MVC 2
- Command Pattern

- Front Controller
- Introduction to Struts Framework
- Examples on 118N
- Form Processing
- Handling DataSource
- DynaActionForm
- DynaValidatorForm
- Tiles Framework

Servlets

- Need of Server Side Programming
- Comparison with CGI
- Introduction to Servlets
- Servlet Life Cycle
- Generic Servlets
- ServletConfig, ServletContext, ServletRequest, ServletResponse
- Database Operations using Servlets
- Http Servlets
- HttpServletRequest, HttpServletResponse
- Session Tracking – Hidden Form Fields, URL Rewriting, Cookies, Http Session
- Initialization Parameters to Servlets
- Internationalization using Servlets
- Thread Safe Servlets
- Filter Servlets
- Event Listeners
- Annotations in Servlets
- ServletRequest Wrapper ServletResponse Wrapper

JSP

- Comparison With Servlets JSP
- Introduction to JSP

JSP Life Cycle

- Scripting Elements – Script lets, Declaration, Expressions

- JSP Directives page, include taglib
- Error Handling in JSP
- JSP Action Tags
- JSP to Servlets Servlets to JSP
- Using Java Beans In JSP
- JSP session
- JSP Scope
- Custom Tag Development
- JSTL

JSP Expression Language