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Advanced Java Certification training is designed to provide beginning to advanced concepts of Java programming techniques. This training doesn't require any prior coding knowledge and will familiarise you with the basic concepts of Core Java 8 including the scope of variable, arrays, methods, constructors, loops and much more. You will also be introduced to frameworks of JDBC and JUnit. Moreover, you will learn the advanced concepts including JDBC architecture, Hibernate and Spring framework, JUnit and SOA. During the training, you can build your skills and knowledge to become an expert in Java programming language. At the end of the training, you will be able to work with Java Applets, advanced strings, Web Applications, advanced input and output strings, Java graphics, regular expressions and more.

Prerequisites

There are no prerequisites for attending this course. However, having a keen interest in learning the extremely popular programming language can be beneficial.

Course Objectives

Upon successful completion of the course, you will be able to:

- Gain knowledge regarding basic concepts and terminologies of Core Java 8
- Implement techniques of multi-threading, exception handling and string handling
- Effectively design a SOAP-based web services
- Configure AOP in a Java application
- Get to know about the servlet functions such as J2EE, HTTP protocol and more
- Understand SOA architecture in detail
- Gain experience in creating dynamic websites

Overview of Java EE

- Introduction to Java EE

Java Servlet I

- Define Servlets API, Interfaces and Methods
- Servlet Lifecycle
- Configuring and Deploying Servlet
- ServletRequest and ServletResponse

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Java Servlet II

- Introduction to Session Management
- Listeners and Filters in Java EE

Java Server Pages

- Lifecycle of JSP
- How to create and work with JSP elements?
- How to work with JSP Standard Action?
- JSTL and Custom Tag Libraries

Introduction to Hibernate

- Define Hibernate
- Hibernate CRUD Operation

Queries and Relationship of Hibernate

- Overview of Hibernate Queries and Relationships
- How to map relationships with Hibernate?

Introduction to Spring

- Overview of Spring
- Dependency Injection
- SpringBean Lifecycle

Spring AOP

- Define Spring AOP
- Configuring AOP in Java Programming

Introduction to Spring JDBC and Spring Hibernate

- Spring JDBC Implementation in an Application
- Spring Hibernate Template
- Spring JDBC Transaction Management

Introduction to Spring MVC

- The architecture, components and framework of MVC
- Spring MVC Program

SOA and Web Services

- Fundamentals of SOA Architecture and Web Services
- Creating SOAP-based and RESTful Web Services

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