



# I AM PROGRAMMER...

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Corporate Programming Training/College Students Internship Training /All Software Languages Training

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## [JAVA-B] [Internship Training in Java]

Note:- 1] Syllabus contain Main topics of language, all sub topics teach into training.

2] Training Certificate will provide.

### Training Summary

# Core Java Theoretical.

# Core Java Practical.



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# Advance Java Theoretical.

# Advance Java Practical.

# 1<sup>st</sup> Test on Theoretical core Java.

# 2<sup>nd</sup> Test on Practical core Java

# 1<sup>st</sup> Test on Theoretical Advance Java.



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**# 2<sup>nd</sup> Test on Practical Advance Java**

**# 1<sup>st</sup> Online Mini Project for college Student**

**# 2<sup>nd</sup> Online Major Project for college Student [Project done in one of the Software Company with senior employee.]**

**# Internship Certificate Provide from Company.**



## **JAVA Syllabus**

### Core Java

- ✓ Java - What, Where and Why?
- ✓ History and Features of Java
- ✓ Internals of Java Program
- ✓ Difference between JDK, JRE and JVM
- ✓ Internal Details of JVM
- ✓ Variable and Data Type
- ✓ Naming Convention

### **OOPS Concepts**

- ✓ Advantage of OOPs
- ✓ Object and Class
- ✓ Method Overloading
- ✓ Constructor



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- ✓ static variable, method and block
- ✓ this keyword
- ✓ Inheritance (IS-A)
- ✓ Aggregation and Composition (HAS-A)
- ✓ Method Overriding
- ✓ Covariant Return Type
- ✓ super keyword
- ✓ Instance Initializer block
- ✓ final keyword
- ✓ Runtime Polymorphism
- ✓ static and Dynamic binding
- ✓ Abstract class and Interface
- ✓ Downcasting with instanceof operator
- ✓ Package and Access Modifiers
- ✓ Encapsulation
- ✓ Java Array

## String Handling



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- ✓ String : What and Why?
  - ✓ Immutable String
  - ✓ String Comparison
  - ✓ String Concatenation
  - ✓ Substring
  - ✓ Methods of String class
  - ✓ StringBuffer class
  - ✓ StringBuilder class
  - ✓ Creating Immutable class
  - ✓ toString method
  - ✓ StringTokenizer class

## Exception Handling

- ✓ Exception Handling : What and Why?
- ✓ try and catch block



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- ✓ Multiple catch block
- ✓ Nested try
- ✓ finally block
- ✓ throw keyword
- ✓ Exception Propagation
- ✓ throws keyword

## Multithreading

- ✓ Multithreading : What and Why?
- ✓ Life Cycle of a Thread
- ✓ Creating Thread

## JDBC

- ✓ JDBC Drivers
- ✓ Steps to connect to the database
- ✓ Connectivity with Oracle
- ✓ Connectivity with MySQL



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## Advance Java Syllabus

### Basics of Servlet

- ✓ Servlet: What and Why?
- ✓ Basics of Web
- ✓ Servlet API
- ✓ Servlet Interface
- ✓ GenericServlet
- ✓ HttpServlet
- ✓ Servlet Life Cycle
- ✓ Working with Apache Tomcat Server
- ✓ Steps to create a Servlet in Tomcat



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- ✓ How servlet works?
- ✓ servlet in Myeclipse
- ✓ servlet in Eclipse
- ✓ servlet in Netbeans

## JSP

### Basics of JSP

- ✓ Life cycle of JSP
- ✓ JSP API
- ✓ JSP in Eclipse and other IDE's

### Scripting elements

- ✓ scriptlet tag
- ✓ expression tag
- ✓ declaration tag



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## 9 Implicit Objects

- ✓ out
- ✓ request
- ✓ response
- ✓ config
- ✓ application
- ✓ session
- ✓ pageContext
- ✓ page
- ✓ exception



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## Directive Elements

- ✓ page directive
- ✓ include directive
- ✓ taglib directive

## Spring Syllabus

### Basics of Spring

- ✓ What is Spring
- ✓ Spring Modules
- ✓ Spring Application

### Spring with IDE

- ✓ Spring in Myeclipse
- ✓ Spring in Eclipse



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## Hibernate Syllabus

### Basics of Hibernate

- ✓ Hibernate Introduction
- ✓ Hibernate Architecture
- ✓ Understanding First Hibernate application

### Hibernate with IDE

- ✓ Hibernate in Eclipse
- ✓ Hibernate in MyEclipse