

Asterix Solution's

# 50 Days Java Training Program

A complete Java Development Training Program.



**Your Journey to Professional Java Development training starts here!**

50 Days Java Training Program is a comprehensive Job Oriented Java Training designed for both the new developers as well as the professionals.

50 Days Java Training Program covers the vast horizons of Java Development modules which are required for an individuals to perform optimally in the field of software development.

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# Course Details

For completing the 50 Days of session here, we count 1 day equals 4 hours.

## Course Content

**The proposed 50 Days Java Training Program covers the following modules:**

- 1. Basic Concepts with C++.**
- 2. Core Java**
- 3. Advanced Java**
- 4. Java Web Technologies(Servlet and JSP)**
- 5. Java Mailing**
- 6. Hibernate**
- 7. Spring**
- 8. Portfolio Project**
- 9. Interview Training**

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# Day Wise Structure

## Day 1:

### Basics of Programing

- Understanding Programing Structure.
- Conditional and Logical Operators.
- Conditional Blocks

## Day 2

- Loops
- Switches
- Function

## Day 3

### Introduction to Java

- History of Java
- Paradigm Introduction(OOP vs POP)
- Why Java?
- How Java is base for two major technologies today i.e. Android Development and Big Data

### Java Declaration and Object Orientation

- Classes
- Objects
- Instances
- Difference in Objects of C++ and JAVA.

## Day 4

- Concept of JDK,JRE and JVM
- Constructors.
- Instance and Local Variables.
- JAVA Naming RULES & CONVENTIONS.
- Static Variables and Methods.
- Source File Declaration Rules.

## Day 5:

### Writing First Java Program

- Installing JDK

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- Configuring Java Variables on System
  - Writing First Java Program
  - Compilation and Execution

### **In Class Assessment-1**

- 10 logical programs to break the ice with Java Environment

### **Day 6**

#### **Inheritance**

- Introduction to Inheritance
- Thumb Rule 1 (with practical)
- Super keyword
- Thumb Rule 2

### **Day 7**

- Method Overriding
- Final keyword
- Manifest Constants

### **Day 8**

#### **String**

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- Introduction to String
- String and Memory management
- Why are Strings final?
- String Methods (with practical's)

### **Day 9**

- String Buffer and String Builder and Regular Expression

### **In Class Assessment-2**

- Practical's on String and Inheritance

### **Day 10:**

#### **Arrays**

- Introduction to Array
- 1-D Array
- Object Arrays

### **Day 11**

- 2-D Array

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- Objects in 2-D Array

### **Day 12:**

#### **Wrapper Class and Boxing**

- Overview of Wrapper Class
- Methods of Wrapper Class
- Conversion from Wrapper to primitive and vice-versa
- Creating and Using Wrapper Classes Objects.
- Overloading in Wrapper Class

### **Day 13**

#### **Interface and Abstract Class**

- Everything about interface and abstract class

#### **In Class Assessment-3**

- Practical's on Arrays and Wrapper

### **Day 14:**

#### **Exception Handling and Packages**

- Using try..catch
- Using Finally.
- Try with Resources
- Defining Exceptions.
- Hierarchy of Exception.
- Throwing our Exceptions.

### **Day 15**

- Understanding the concept of packages.
- Making our own package
- Understanding access specifier.
- Making our own jar file and setting in classpath.

### **Day 16**

#### **Date and Time API**

- A special session just to tackle the usage of Date and Time API.

#### **Java I/O**

- File Navigation

### **Day 17**

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- Input Output with Disk Files
  - Serialization

## **Day 18**

### **Threads**

- Defining Threads
- Instantiating Threads.
- Thread States.
- Synchronization.
- Thread Priorities

## **Day 19**

### **In Class Assessment-5**

- Practical's on Threads and Data and Time API

## **Day 20**

### **GENERIC & COLLECTION**

- List Interface
- Set Interface.
- Map Interface.
- Query Interface.
- ArrayList
- TreeSet
- TreeMaps

## **Day 21:**

### **GENERIC & COLLECTION(Cont)**

- Sorting Collections and Arrays
- Generic Declaration
- Generic Methods
- Polymorphism and Generics
- Mixing Generic and Non Generic Collection.

### **In Class Assessment-6**

- Practical's on Collection API

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## Day 22:

### JDBC

- JDBC Architecture.
- Overview of Drivers.
- JDBC Driver Manager.
- Steps for accessing database using JDBC API.
- Statements

## Day 23

- Prepared Statement
- Callable Statement
- Scrollable and Updatable ResultSet.
- ResultSetMetaData and DatabaseMetaData.

## Day 24

- NEW!! Using JDBC with MongoDB

## Day 25:

### Java with JSON

- Integration of Java with JSON
- JSON Array.
- JSON Object

## Day 26 - 29:

### Servlet

- Introduction To Java Servlets
- Servlet API
- Servlet Life-Cycle.
- Working With Apache Tomcat
- GenericServlets
- HttpServlet
- HttpSession
- Session Binding/Tracking
- Inter-Servlet Communication

## Day 30-32:

### JSP

- JSP SYNTAX.

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- Implicit Objects.
  - Custom Tags.
  - JSP Actions
  - JSP Expression

### **Day 33:**

#### **In Class Assessment-7**

- Practical's on Servlet and JSP

#### **Worker Action Model**

- A tested and proven model which can be implemented in any desktop or web project. It makes the working easier as well as time saving. Model concentrates on Reusing of components.

### **Day 34-36:**

#### **Mini Project(This is demo example,actual projects change from batches to batches)**

- A small Feedback system for college faculties using Servlet and JSP using Worker-Action Model

### **Day 37:**

#### **Java Mail**

- Using Java Mail API to send mail using Java Codes
- Sending Text Mail
- Sending HTML Mail
- Sending Mail with Attachments

### **Day 38-40:**

#### **Hibernate**

- Why Hibernate?
- Understanding ORM.
- Objects and Persistence.
- Hibernate Architecture
- Mapping Documents.
- Hibernate Database Connection
- Creating Persistent Classes



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- Mapping Collection of Objects.
  - Persistent Object Life Cycle.
  - Hibernate with Servlets.
  - HQL: Hibernate Query Language.

### **Day 41-44:**

#### **Spring**

- Introduction to Spring Framework
- Inversion of Control and Dependency Injection
- IOC Container
- Bean Creation
- Construction Injection
- Setter Injection
- Auto Wiring
- Bean Initialization and Destruction
- Aware interfaces: BeanNameAware, BeanFactoryAware
- Lookup Method Injection
- Use of ApplicationContext
- ResourceBundleMessageResource
- Events and Event Handling
- Aspect Oriented Programming (AOP)
- Introduction to AOP
- Spring Web MVC
- MVC Architecture
- Front Controller and DispatcherServlet
- Spring with JDBC and Hibernate

### **Day 45-48:**

#### **Work on Portfolio Project Development and Hosting**

### **Day 49-50:**

#### **Interview Training**

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# Placements

## How our Placement Process Work ?

- We have a dedicated team who looks after placing our students.
- Above 90% of our students trained right now are placed & hence any vacancy in their respective companies we get to know it first.
- Apart from that our company has tie-up with an array of job-portals & IT Job Consultants.
- To sum it up in a line, we have taken utmost care & in partnering with Job Portals for Java Related Jobs.

## Top Companies Where Our Students Are Placed

- **Accenture**
- **Wipro**
- **Planfirma Technologies Pvt Ltd**
- **Interact CRM**
- **Infosys**
- **Sudeshi Infotech**
- **HRDXangers Ltd**
- **AD Stringo**
- **Mastek Pvt Ltd**
- **Forbes Technosys Ltd**
- **Wind World**
- **SQWA India**
- **Parametrix Technologies**

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# Contact

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