

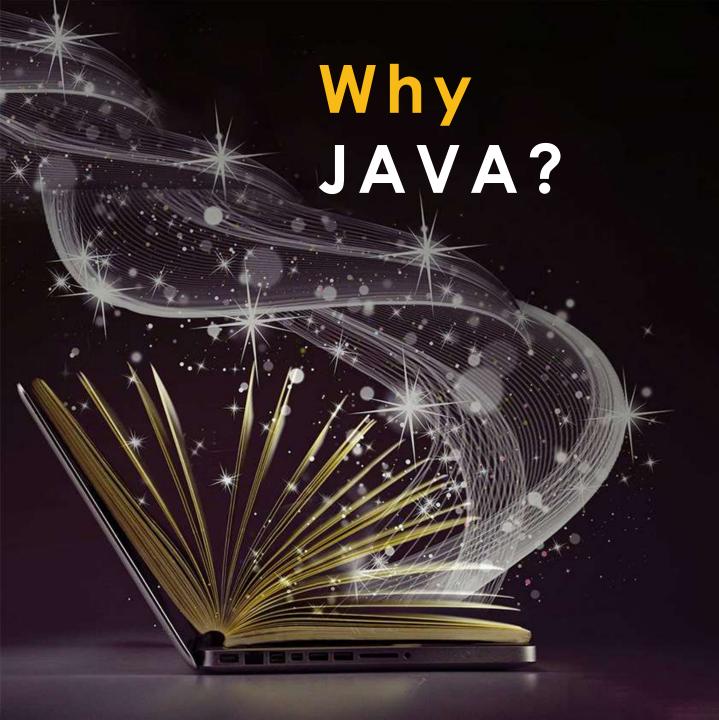


Course Curriculum



- Introduction to programming
- OOPS Concepts
- Java Built-in packages and API
- Java streams API in depth
- **❖** Introduction to JAVA EE
- Hibernate & Springs
- Framework Design
- Web Services
- Web Technology, Project Setup
- ❖ Mock Interview
- ❖ HR Sessions
- * Resume Preparation





- This course is a foundation for any Java Programmer, Java Developer, Java Architect or any professional associated with Java who wants to explore and master the Java.
- Easy to learn
- Popularity of Java and High Salary
- Multiple open source libraries
- Java has abundant API
- Powerful development tools Eclipse, NetBeans, IntelliJ IDEA, etc
- Platform independent and free of cost





01 Week 1

- Introduction to programming
 - Introduction to java
 - JDK installation
 - Keywords, Identifiers, variables
 - Operators
 - Method/Functions
 - Flow Control Statements
 - Arrays
 - Strings
 - Interactive programs in java using Scanner
 - Introduction to git and using basic commands
 - Creating account on GitHub



02 Week 2

Object Oriented Programming System

- Introduction to java
- Classes and Objects
- Object creation
- Reference variable
- Global and local variables
- Constructors
- Aggregation
- Composition
- Inheritance
- Method Overloading
- Method Overriding
- Abstract classes
- Interfaces, Typecasting
- JVM architecture
- Polymorphism, Abstraction, Java packages, Access Specifies

03 Week 3 & 4

Java Built-in packages and API

- Introduction to java
- Overview of java API
- Object class
- String, String Buffer and String Builder
- Exception Handling
- Threads and multithreading
- Wrapper Classes
- Data Structures
- JAVA COLLECTION FRAMEWORKS
- File Handling
- Serialization
- Garbage Collector
- Encapsulation





04 Week 5

Java streams api in depth

05 Week 6,7 & 8

❖ Introduction to JAVA EE

- Introduction to java
- What is an application? Types of application?
- What is standalone application?
- What is web application?
- What is network?
- What is internet?
- What is intranet?
- What is server?
- What is database?
- What is an api?
- What is J2ee?



❖ JDBC

❖ Introduction

- Steps to work with JDBC
- JDBC pre-requirements
- Installing MYSQL,DB server
- FIRST JDBC program

Drivers

- Introduction
- What is a JAR file?
- About driver class
- How to load the driver class into the program
- Types of Driver

❖ DB URL

- What is URL?
- Structure of dB URL

Connection interface

- Driver Manager class
- About the get connection method
- Connection object



❖ JDBC

Connection interface

- Introduction
- Dynamic and static sql queries
- Statement and prepared statement objects
- ExecuteQuery() and executeUpdate() methods

❖ Result Set

- How to handle the result set object
- How to process the result set object

Closing of JDBC Objects

- Why to close an object?
- How to close an object



❖ Servlet

Introduction

- What is web browser?
- What is web resources?
- Types of web resources
- What is web server?
- Installing of Apache tomcat web server

❖ About Servlet

- Servlet introduction
- Creating the first servlet in web app
- Steps to create WAR file
- Build & Deployment process

❖ Web URL

- Servlet introduction
- Web URL structure.
- Query string.
- HTTP & HTTPS protocols.
- Key elements of HTTP request and HTTP response
- HTTP methods.
- Difference between GET and POST.



Servlet Container

- About servlet containers & its advantages
- Request and response objects
- GetParameter() and getParameters() methods
- About XML
- About deployment descriptor(web.xml)

Servlet Hierarchy

- Generic servlet
- HTTP Servlet
- Difference between Generic
- Servlet and HTTP Servlet
- Servlet life cycle
- Single thread model servlets
- Servlet context and servlet config
- Redirect.Forward and Include

Attributes

- What is an attribute?
- Need of attributes
- Types of attributes





❖ Servlet

Cookies

- Introduction
- Steps to create a cookie in the servlet
- Types of cookies
- Life cycle of cookies
- Application of cookies

Session

- Introduction
- Steps to create a session in the webapp
- Types of session
- Life cycle of session
- Application of session



❖ JSP

❖ Introduction

- How to create JSP
- Difference between Servlet and JSP

❖ JSP Scripting Elements

- Scriptlet tag
- Expression tag
- Declaration tag

JSP Implicit Object

- Request object
- Response object
- Config object
- Application object
- Session object

Exception Handling in JSP

About is Error Page and error Page

06 Week 9 & 10

Hibernate

- Understand ORM and basics of Hibernate
- Understand and implement life cycle of Hibernate Persistence and Session Factory
- Implement Hibernate Mappings,
 Inheritance and Types
- Understand Hibernate Criteria and Query Language
- Exploring Hibernate Transactions, Filter and Performance
- Implement Hibernate Search and Validations
- Hibernate with NoSQL and Spring





Hibernate

- Hibernate Overview
- Hibernate-ORM
- Hibernate Architecture
- Hibernate Environment Setup
- Hibernate Configuration
- Hibernate Session
- Hibernate Mapping Files
- Hibernate Mapping Types
- Hibernate Annotation
- Hibernate Query Language

Spring

Introduction

- Why spring
- Spring modulus
- Spring application
- Spring in eclipse



❖ Spring

❖ Spring IOC

- IOC container
- Dependency injection
- Constructor injection
- Constructor injection dependent object
- Constructor injection with collection
- Constructor injection with collection 2
- Constructor injection with map
- Constructor injection in inheritance been
- Setter injection
- Setter injection dependent object
- Setter injection with collection
- Setter injection with collection 2
- Setter injection with map
- Injection with map 2
- Constructor injection versus setter injection
- Auto wiring
- Factory method



Spring MVC

- IOC container
- MVC introduction
- multiple view pages
- multiple controllers
- model interface
- request Param annotation
- form tag library
- form text field
- form radio field
- form checkbox
- form drop-down list
- JDBC Template Example
- PreparedStatement
- ResultSetExtractor
- MVC CRUD Example
- SPEL Examples
- variable in SPEL
- spring MVC Validation





07 Week 11 & 12

- Webservices Introduction
- What is Webservices
- Why Webservices
- Real Time Examples of Webservices
- Different Webservices
- SOAP
- REST
- About HTTPS
- Understanding SOAP & REST Webservices
- Requirement of Webservices
- Advantage of Webservices
- Understanding XML & JSON
- JSON to Java Object and Vice-versa using GSON framework
- XML to Java Object and Vice-versa using JAXB framework
- Understanding XPath
- REST Webservice using Spring-REST & Apache Jersey
- Spring boot and Micronaut framework introduction





❖ Web Technology

- Project Setup
- Responsive project using Html, CSS, JavaScript & bootstrap

09 Week 15 & 16

- Major Project
- Interview Preparation
- Mock Interviews
- **❖** HR Sessions





Placement Process





We Create Quality Professional



Performance Analysis Based on Below Factors

- Performance in Basic Java & OOPS Concepts
- Unix & Database Knowledge
- API Testing, Java Built-in packages and API
- JAVA EE, JDBC, Servlet
- ❖ JSP, JSTL
- Framework, Hibernate
- Spring, Project and Domain Knowledge
- Delivery & Presentation Skills
- Communication Skills
- Confidence in interview





2021-23-Placement Record



Iringneuna-16.28 LPA

2022- Maximum Drawn Package

Abhijeet Bhagude-13.0 LPA Himanshu Sharma-13.0 LPA

Average Drawn Package by our candidate- 9.50 LPA

Minimum Drawn Package by our candidate- 6.0 LPA

Expectation from the candidates would be:

❖ 3-4 Years of Experience: 9 LPA to 16 LPA

❖ 2-3 Years of Experience : 7 LPA to 11 LPA

❖ 1-2 Years of Experience: 5 LPA to 8 LPA

Freshers: 3 LPA to 5 LPA



Registration Process



Actual Batch Start Date

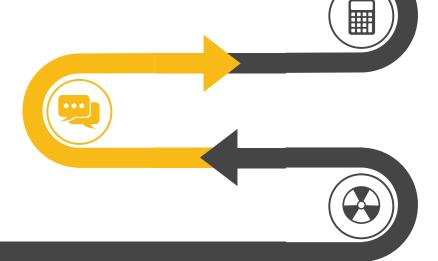
Batch will start from 26th April.

Morning: 6:30 to 8 AM

Meeting link will be shared in registered group.

Confirmation of Registration

Registration payment confirmation screenshot to be shared to Mahadev Sir



Registration Consent Form

Consent form to be shared to Mahadev sir which you will receive in the registration group

Demo Session

Demo Schedule: 22/04.
After Demo Session,
Registration need to
completed before 26th
April. Payment details will
be shared on new
admission group.

https://mssquareglobal.com/





ANY QUESTIONS?

THANK YOU

MSSQUARE GLOBAL Corporate Training Center