

# BECOME A MASTER IN JAVA PROGRAMMING

Your Path to Mastery Begins Here!



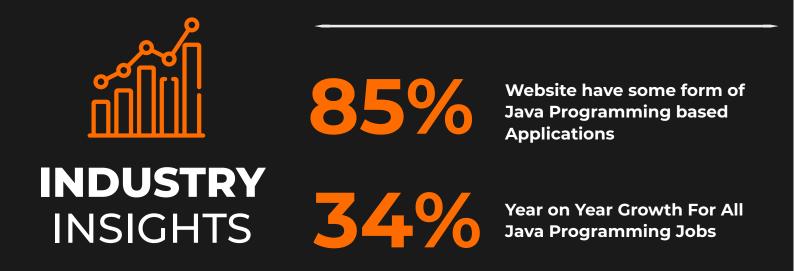
# JAVA PROGRAMMING Course Mission

SevenMentor Institute leads the way in providing cuttingedge IT Training and Skill Development across India. We have strived to establish an ideal learning atmosphere at all our training centers. We prepare our students to become dependable future professionals. Our institute aspires to promote universal access to learning for students. To achieve our mission of promoting better learning we invite all students to enroll in our Java Programming Course. Join us today to make a fulfilling career in the Development sector.





# JAVA PROGRAMMING STATISTICS:



# Learn Java Programming and Be in Demand Always!

In today's rapidly evolving Tech Industry, being a skilled Java Programmer is a valuable asset. There is an unprecedented requirement of all rounders and dynamic developers in the website building domain. SevenMentor's comprehensive Java Course is designed to equip you with the knowledge and practical skills to handle every aspect of Java Programming.



# Become an Omnipresent JAVA PROGRAMMING!



Java Programming is like being the architect of the digital world. It's the art of seamlessly connecting the visible, user-facing Front-End with the hidden, behind-the-scenes back-end of web sites and applications. A Java Programmer possesses a unique set of skills, combining the creative flair of a front-end developer with the problem-solving prowess of a back-end developer. Whether you dream of working with innovative startups, established tech giants, or even launching your own projects, the possibilities are endless.





# **Start Learning** to Start Applying:

Gain practical Java Programming experiences through well designed courses, latest tools and excellent teachers.



**Experienced Faculty** 



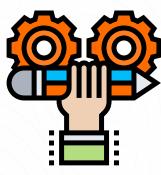
**Flexible Scheduling** 



Hands-On Learning



**Mock Interview Sessions** 



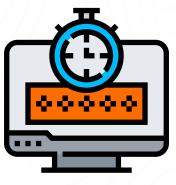
**Real-World Projects** 



**Career Support** 



**Comprehensive Curriculum** 



Lifetime Access





# **Core Java**

# **Duration: 2 months**

Object Oriented Programming Concepts	Introduction to Java
• Object	• Features of Java
<ul> <li>Characteristics of an Object</li> </ul>	• Java Compiler
• State	• Java Runtime Environment
• Behavior	Bytecode Verifier
• Identity	• Class Loader
• Responsibility	• JiT Compiler
• Major Pillars	• JDK, JRE, JVM
Abstraction	
Encapsulation	
• 'IS A' relationship – Inheritance	
• 'HAS A' relationship – Containment	
• Polymorphism	
Java Language Fundamentals	
Java Language	Fundamentals
<b>Java Language</b> • Classes and Object	• static keyword – variable & method
<ul> <li>Classes and Object</li> </ul>	• static keyword – variable & method
<ul> <li>Classes and Object</li> <li>Class Syntax</li> </ul>	• static keyword – variable & method • main method
<ul> <li>Classes and Object</li> <li>Class Syntax</li> <li>Primitive Data Types</li> </ul>	• static keyword – variable & method • main method • Instance init block & Static init block
<ul> <li>Classes and Object</li> <li>Class Syntax</li> <li>Primitive Data Types</li> <li>Implicit and Explicit Conversion</li> </ul>	<ul> <li>static keyword – variable &amp; method</li> <li>main method</li> <li>Instance init block &amp; Static init block</li> <li>Array – 1D, 2D</li> </ul>
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Java Language Fundamentals	Containment, Inheritance and Polymorphism
<ul> <li>Classes and Object</li> </ul>	Implementing 'HAS A' relationship
• Class Syntax	Container Object and Contained Object
<ul> <li>Primitive Data Types</li> </ul>	<ul> <li>Implementing 'IS A' relationship</li> </ul>
<ul> <li>Implicit and Explicit Conversion</li> <li>Access specifiers</li> </ul>	<ul> <li>extends keyword to achieve</li> </ul>
• Constructor	Inheritance
<ul> <li>Creating object</li> </ul>	<ul> <li>Super class and Sub class</li> </ul>
<ul> <li>Memory Allocation</li> </ul>	• super keyword
Garbage Collection	protected keyword
<ul> <li>Method Overloading</li> </ul>	Polymorphism
<ul> <li>Parameterized Constructor</li> </ul>	Method Overriding
• this keyword	Super class reference to create
<ul> <li>static keyword – variable &amp; method</li> </ul>	
• main method	Sub class object
Instance init block & Static init block	Reference Type Casting
• Array – 1D, 2D	Static Type and Dynamic Type of
<ul> <li>Enhanced for loop - forEach loop</li> <li>Variable Argument</li> </ul>	reference
vanable Algument	• Covariant raturn type

- Package
- Importing from packages
- static import

- Covariant return type
- java.lang.Object class and it's

methods – to String ()

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

abstract keyword
Abstract class vs Concrete class
Abstract method vs Concrete method
final keyword - variable, method, class
final method vs abstract method
final class vs abstract class
Interface
Role based inheritance
Multiple Inheritance
implementis keyword
Implementing interface in a class
Implementing interface in a class
Interface
Multiple Inheritance



#### **Annotations and Enum**

#### Annotation

- Creating user defined annotation
- Use of annotation at different levels
- Meta-annotation
- java.lang.annotation.Annotation interface
- Built-in Annotations @Override,
   @SupressWarnings, etc
- Enum
- Creating user-defined Enum
- Enum Constants
- Java.lang.Enum class

#### Utility Classes (java.lang) & Inner Classes

- Wrapper classes
- Autoboxing & Autounboxing
- String, StringBuffer, StringBuilder
- String constant pool
- Inner classes
- Simple Inner class
- Static nested class
- Method Local Inner class

#### **Functional-Style Programming**

- Functional Interface
- Lambda Expression
- @FunctionalInterface
- Method References
- Built-in Functional interface
- java.util.function package
- Predicate, Consumer,
   Supplier, Function

#### **Exception Handling**

- What is exception?
- Type of Errors
- Exception class hierarchy
- Exception Handling Mechanism
- try keyword
- Catch keyword
- Checked and unchecked exceptions
- Throw vs throws keyword
- Finally block
- Multi catch
- Final re-throw
- Try-with-resources (ARM)
- User-defined exception

#### **GUI Development using AWT & Swing**

AWT	<ul> <li>What is an event?</li> </ul>
• What is AWT?	EventListener
• Why AWT?	<ul> <li>Adapter classes</li> </ul>
• Features of AWT	<ul> <li>Event Delegation Model</li> </ul>
<ul> <li>AWT Component and it's hierarchy</li> </ul>	<ul> <li>Demo Program using</li> </ul>
• Layout Managers	action Performed()
<ul> <li>Steps in AWT Program</li> </ul>	
• Event Handling	



#### SWING

- What is Swing?
- AWT vs Swing
- JFC Java Foundation Classes
- Hierarchy of Java Swing classes
- MVC Architecture
- Event Handling in Swing
- Demo Program using JFrame with event handling

#### Multithreading

- Multitasking
- Multiprocessing vs Multithreading
- What is thread?
- Thread Life Cycle
- Creating thread using java.lang.
   Thread class
- Creating thread using java.lang.
   Runnable interface
- Thread class and it's methods
- Inter thread communication
- Thread Synchronization
- synchronized keyword
- synchronized method & synchronized block

### **Collection Framework & Generics**

- Collection and it's types
- java.util package
- Generics Syntax
- List ArrayList, Vector
- Set HashSet, SortedSet, NavigableSet – TreeSet
- Map HashMap, SortedMap, NavigableMap – TreeMap

- Hashtable and Properties class
- Importance of equals() & hashCode() methods
- Searching & Sorting Algorithm Arrays & Collections classes
- Comparable vs Comparator interfaces

#### Stream API

- What is Stream?
- Types of Stream Sequential & Parallel Stream
- java.util.stream package
- Stream operations intermediate and terminal operations
- map(), reduce(), filter(), forEach(), limit(), skip() methods
- Collectors toCollection(), toList(), toSet(), toMap() methods

### File IO & Object Serialization

- java.io package
- File class & it's method
- File Reading, Writing and Appending Operation
- Byte Stream FileInputStream
   & FileOutputStream
- Character Stream FileReader
   & FileWriter
- BufferedReader & BufferedWriter, PrintWriter
- Autocloseable
- Using try-with-resources
- Non-blocking IO (nio)



- java.nio.file package
- Path interface
- Files class, Paths class
- FileSystem
- Object Serialization
- ObjectInputStream & readObject() method
- ObjectOutputStream & writeObject() method
- transient keyword

#### Networking

- java.net package
- URL
- Socket Programming
- TCP vs UDP
- Socket, ServerSocket
- DatagramSocket, DatagramPacket

#### **Unit Testing**

- Introduction
- What is Testing?
- Why Unit Testing?
- Testing Terminologies
- Junit Framework
- Junit Annotations
- Creating Test Cases

# Adv Java

## **Duration: 2 months**

### **Introduction to SQL**

- What is SQL?
- RDBMS
- Installation of MySQL Database
- SQL Data Types
- SQL Constraints
- Connecting to MySQL
- Creating Database

- Performing CRUD operations
- INSERT Query
- SELECT Query with WHERE Clause
- UPDATE Query
- DELETE Query



JDBC	Maven
Java Database Connectivity	What is Maven?
• java.sql package	Features of Maven
Connection interface	Environment Setup
Driver interface	Build Life Cycle
Types of JDBC Drivers	• Phases
• Driver Manager Class	• Goals
Connecting to MySQL using JDBC API	• Plugins
• Statement	• POM xml file
<ul> <li>Prepared Statement</li> </ul>	Dependency Management
Callable Statement	Maven Dependencies
• Result Set	Maven Repositories
<ul> <li>Types of Resul tSet – Forward Only,</li> </ul>	Maven Archetypes
Scrollable	Creating Maven Project using Eclipse
<ul> <li>Result Set Meta Data</li> </ul>	
• Database MetaData	Introduction to Web Technologies
<ul> <li>Database MetaData</li> <li>javax.sql.rowset package</li> </ul>	
	Distributed Architecture
<ul> <li>javax.sql.rowset package</li> </ul>	
<ul> <li>javax.sql.rowset package</li> <li>What is RowSet?</li> </ul>	<ul> <li>Distributed Architecture</li> <li>Two-tier Architecture</li> </ul>
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•	Response Message Format – Response
	Header , Response Body

- Client Side Programming
- Server Side Programming

#### Servlet

- Introduction to Servlet
- Servlet API Servlet, ServletConfig interfaces
- GenericServlet
- HttpServlet
- Servlet Life Cycle
- ServletContext vs ServletConfig
- Servlet Configuration web.xml
- @WebServlet Annotation
- Creating Servlet
- Configuring Tomcat Server in Eclipse IDE
- Deploying and Running Servlet on Tomcat via Eclipse
- Inter Servlet Communication
- Request Dispatcher forward(), include()
- Response Redirection
- What is Session?
- Session Tracking
- Hidden Form Field
- Cookie
- HttpSession
- URL Rewriting

# JSP

- Introduction to Java Server Pages
- JSP API
- JSP Life Cycle
- Creating and Running JSP Page
- on Tomcat Server
- Building Blocks of JSP
- JSP Directives
- Types of JSP Directives
- Page Directive and it's attributes
- Include Directive
- JSP Implicit Objects
- JSP Scripting Elements
- Declaration Script
- Scriptlet
- JSP Expression
- Java Bean Standards
- JSP Standard Actions
- Java Bean Actions useBean, setProperty, getProperty
- forward and include actions
- include directive vs include action
- Custom Tag
- Taglib directive



#### Web Service JSTL • What is Web Service? Java Standard Tag Library Web Service vs Web Application Types of JSTL sub-libraries SOA – Service Oriented Architecture • Core JSTL tags • Service Provider Formatting JSTL tags Service Consumer • SQL JSTL tags Types of Web Service • XML JSTL tags SOAP Web Service JSTL Function tags RESTful Web Service Demo – Core Tag ROA – Resource, URI and Representation Uniform Interfaces • Creating REST API

- Running RESTful Web Service on Tomcat
- Consuming REST API

# Java Framework - Hibernate JPA

## **Duration: 1 month**

Prerequisites: Core Java, Collection Framework, JDBC, XML, SQL, RDBMS

### **Object Relationship Mapping**

ORM Principle

Benefits of ORM

• Drawbacks of JDBC

• Paradigm Mismatch

Types of ORM Frameworks

## **Hibernate JPA Introduction**

- What is Hibernate?
- Features of Hibernate
- Advantages of Hibernate
- Hibernate in Layered Application Design
- Hibernate Architecture
- Components of Hibernate
- Configuration
- Session Factory





- Session and it's methods –
   get(), load(), save(), update(), delete()
- What is JPA?
- Hibernate and JPA

### Simple Class Mapping

- Entity Class
- POJO class and it's advantages
- Hibernate JPA Mapping
- Mapping POJO class with Database Table
- JPA Annotations @Entity, @Table,

@ld, @Column

- Hibernate Configuration
- hibernate.cfg.xml file
- Configuring JDBC Driver, JDBC URL
- Hibernate Dialect
- Creating Hibernate Application
- Performing CRUD operations

### **Hibernate JPA Entity Life Cycle**

- Transient State
- Persistent State
- Detached State

### JPQL

- Java Persistent Query Language
- From clause
- Where clause
- Order By
- Select clause
- Using Criteria

### **Component Mapping**

- Mapping 'HAS A' relationship
- Creating Contained class
- Creating Container class
- Using JPA Annotations -

@Embedded, @Embeddable

### **Inheritance Mapping**

- Types of Inheritance Mapping
- Table Per Class Hierarchy
- JPA Annotations @Inheritance
- Inheritance Strategy InheritanceType.
- SINGLE\_TABLE
- @DiscriminatorColumn,
- @DiscriminatorValue
- Table Per Concrete Class
- Inheritance Strategy InheritanceType.
- TABLE\_PER\_CLASS
- Table Per Joined Subclass
- Inheritance Strategy InheritanceType.
- JOINED
- @PrimaryKeyJoinColumn

### **Relationship Mapping**

- One-to-One Mapping
- @OneToOne, mappedBy
- . @JoinColumn
- One-to-Many Mapping
- @OneToMany
- Many-to-One Mapping
- @ManyToOne
- Many-to-Many Mapping





## Java Framework – Spring & Spring Boot

## **Duration: 1.5 month**

Prerequisites: Core Java, Collection Framework, JDBC, XML, SQL, RDBMS,Hibernate JPA, Maven, Servlet, JSP, RESTful Web Service,

#### **Introduction to Spring**

- Mapping 'HAS A' relationship
- Creating Contained class
- Creating Container class
- Using JPA Annotations -

@Embedded, @Embeddable

### **Spring Architecture**

- Types of Spring Module
- Spring IoC Container
- Spring Core BeanFactory
- Spring Context ApplicationContext
- Spring AOP
- Spring DAO JdbcTemplate
- Spring ORM HibernateTemplate
- Spring Web
- Spring Web MVC

#### **Spring Bean and Configuration**

- Creating Spring Bean
- Spring Bean Configuration
- Xml Based Configuration
- Annotation Based Configuration
- Stereotype Annotation @Component
- @Configuration
- @ComponentScan
- JavaConfig @Bean
- Bean Scoping
- Bean Scopes singleton, prototype,
  - request, session
- @Scope Annotation

#### **Spring Bean and Configuration**

- Spring Aware Interfaces
- BeanNameAware
- BeanFactoryAware
- ApplicationContextAware
- InitializingBean afterPropertiesSet()



- @PostConstruct
- Custom Init Method
- DisposableBean
- Custom Destroy Method

#### **Dependency Injection**

- Constructor Injection
- Constructor-arg
- Setter Injection
- Property
- Bean Autowiring
- @Autowired
- @Qualifier
- Method Injection
- Collection Injection
- List Injection
- Set Injection
- Map Injection
- Properties Injection

#### **Spring Boot**

- Introduction to Spring Boot
- Features of Spring Boot
- Spring Boot Starter Dependencies
- @SpringBootApplication
- AutoConfiguration
- Creating Spring Boot Application
- Spring Initializr https://start.spring.io/

#### **Spring Data**

- What is Spring Data?
- Features of Spring Data
- Spring Data JDBC
- Repository interface and it's hierarchy
- Creating custom Data Repository interface
- Performing CRUD Operations
- Custom methods
- @Query, @Param

#### **Spring Data JPA**

- Jpa Repository interface
- Creating custom Data JPA Repository interface
- Performning CRUD Operations
- Customer methods
- JPQL Queries
- Transaction Configuration

#### **Spring Web**

- Spring Web MVC
- MVC Architecture
- Spring Web Architecture
- DispatcherServlet
- HandlerMapping
- View Resolver
- Controller Request Handler
- @Controller Stereotype Annotation
- @RequestMapping



#### **RESTful Web Service**

- @RestController
- @GetMapping
- @PostMapping
- @PutMapping
- @DeleteMapping
- Creating REST API

### **Spring Security**

- Authentication
- Authorization
- Roles
- Permissions
- Features of Spring Security
- Authentication Models
- Password Encoders
- User Store Types
- Oauth2



# Your Success Is Our Priority:

Every student at **SevenMentor** gets personalized guidance, Mentorship, and ample opportunities to address individual questions and concerns. All our sessions are designed to be engaging, interactive, and tailored to your learning pace, ensuring you grasp each concept with clarity.



## Pooja Ghodekar

Full Stack Trainer (SevenMentor & Training Pvt. Ltd.)

A passionate trainer having 6 plus years of experience in Java Full stack technologies with a comprehensive understanding of both front-end and back-end technologies, she provides in-depth training and mentorship to nurture the next generation of full stack developers. Her commitment of staying up to date with the latest industry trends and best practices ensures that her students receive the most relevant and up-to-date education in the field.



## Pooja bhavsar

Java full stack tranier & C & C++ Trainer (SevenMentor & Training Pvt. Ltd.)

Working as Java Fullstack Trainer having 4+ years of experience in teaching field. I have trained over 500+ professionals and students about core to java frameworks, SQL, and web development. Also participated in industrial project development process.



### Dharmaraj Pawale

Sr. Technical Trainer

Dharmaraj has expertise in retail as well as corporatetraining in Java Full Stack, MEAN Stack, MERN Stack, Hadoop-Big Data, Spark. Hehas extensive 19+ years experience in both Software Training and Development.He has trained more than 10000+ students and corporate professionals in India aswell as overseas. He is also Salesforce Certified Administrator. His area of expertise lies in both Frontend as well as Backend Technologies. Frontend technologiesinclude HTML5, CSS3, Bootstrap, JavaScript, React & Redux, Angular andBackend Technologies include Java, Servlet & JSP, RESTful Web Service, HibernateJPA, Spring, Spring Boot, MicroService, Node JS, Express JS, RDBMS Databasessuch as MySQL, Oracle SQL, PL/SQL, NoSQL Databases such as MongoDB





#### Onkar Nagarkar Java Full stack tranier

An Expert Java Trainer with over 5+ years of Corporate experience in designing and developing end-to-end industry level scalable applications.Excels in conveying core and complex programming concepts in depth in the simplest way possible, enabling any student, even from a non-IT background to crack any MNC comfortably.Knows how to engage and bring out the required confindence in a student, to master the interview rounds and communicate effectively.Skilled in Complete end-to-end software development which includes C, C++, Java, SQL, Spring boot, Angular and JavaScript.as MySQL, Oracle SQL, PL/SQL, NoSQL Databases such as MongoDB



#### Anil Giri Java full stack & .Net Full stack Trainer (SevenMentor & Training Pvt. Ltd.)

Professional IT trainer with over decade and eight years of experience in Java and .NET Full stack technologies. Worked for many corporates and delivered corporate training PAN India also managed team of 50 trainers and has many accolades under his belt due to his excellence at work. An expert at designing training courses with technical content, Effective at imparting knowledge through his superior verbal communication skills, active listening style and unique teaching pedagogy. He has proven success in utilizing cutting-edge technology to devise training exercises for all types of learners.





## THINGS THAT SET US APART FROM THE REST:

SevenMentor prepares you well so that you can embark on a rewarding career in Java Programming through our training.



Hands-On Projects: Gain practical experience by working on realworld projects, building a robust portfolio that will impress potential employers.



**Career Support:** We're dedicated to your success! Benefit from career guidance, resume building, interview prep, and job placement



**Flexibility:** Our flexible schedule options allow you to learn at your own pace, making it perfect for both beginners and experienced developers looking to upskill.



**Community:** Join a vibrant community of like-minded learners, where you can collaborate, share ideas, and network with peers.

## **Our Students are at reputed Tech Companies**

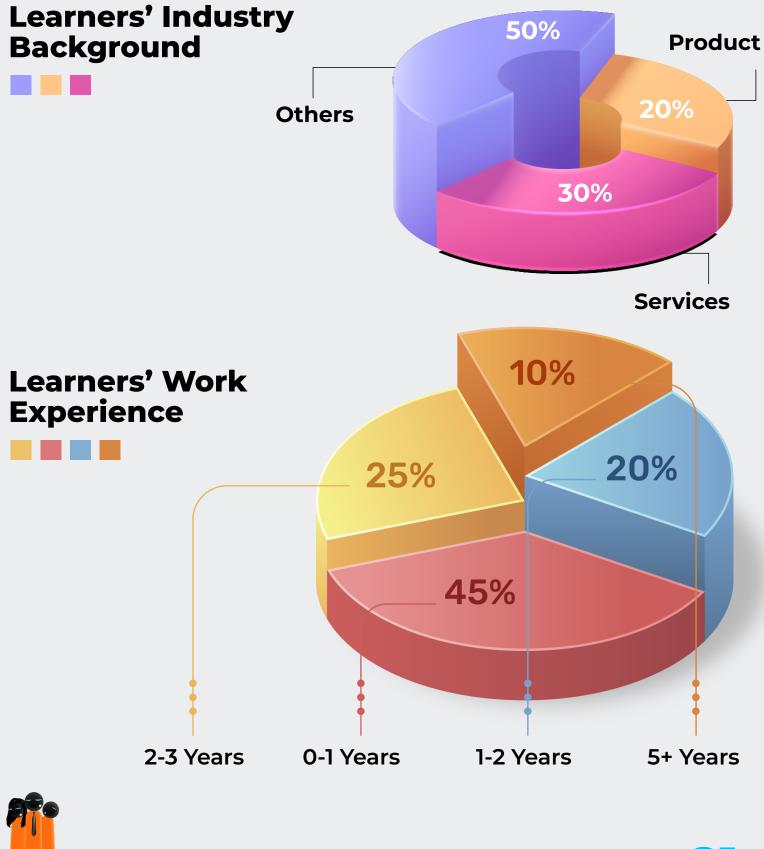




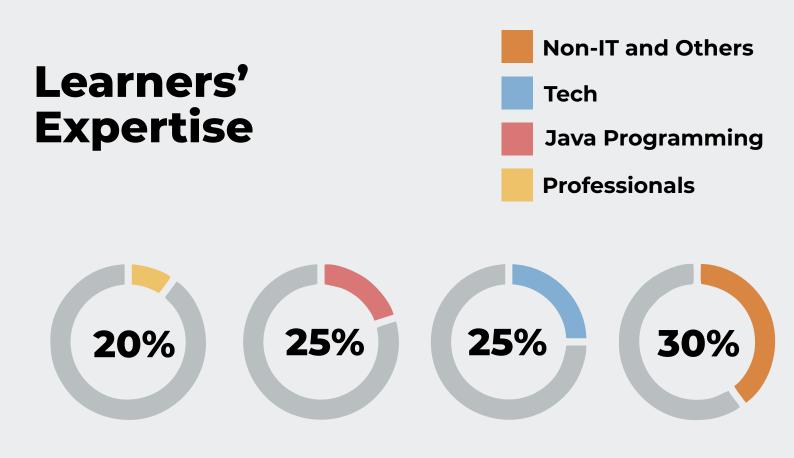
# Success is around the corner!

SevenMentor

Consider the potential earnings and opportunities that a career in Java Programming can offer. With Java Programming you'll be well-positioned to secure a job that provides you with a stable and potentially prosperous future.



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# **Begin Your Journey Towards Better Future:**

The global Java Programming vacancies will grow by 56% and generate 4 million new jobs by 2030.

So get ready to dive headfirst into the dynamic world of Java Programming by gaining all round experience at SevenMentor



# Affordable Training without Compromise:

We understand that pursuing your dreams in Java Programming shouldn't be a financial burden. That's why we've made afford ability a cornerstone of our Java Programming Course. We believe that quality education should be accessible to everyone, and we've structured our program to reflect this commitment. Our Java Programming Course takes you on an exciting journey but at a substantially low price.

## How to become a great JAVA Developer?

- Enroll at SevenMentor Institute
- Get hands-on training from experienced teachers
- Receive Industry-recognized JAVA Programming
   Certification
- Work for leading MNCs through our on-campus interviews



# **Success is Just a Call Away!**

So if you are ready to code your way to success? Enroll now at SevenMentor and unlock your potential as a Java Programming. Our counsellors are a call away and they will be more than happy to talk with you. Anyday, Everyday, we are there for you!

# **Request For Call Back**

