

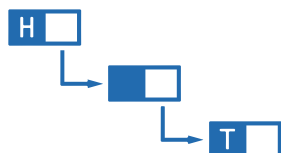
FROM BASICS TO ADVANCE

Java Programming

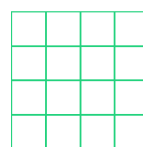
Build your Core skills with Java



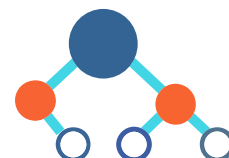
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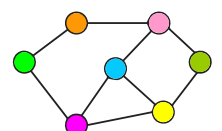
Linked Lists



Matrix



Trees



Graphs

Who we are

We are Learn and Build - an e-learning platform by TechieNest Pvt. Ltd. Furthering our 10+ years of strong legacy and training over 200K candidates from 300+ reputed colleges/universities, we aim at making quality technical upskilling accessible to learners across the country. We work as the cornerstone for budding technocrats and stepping stone for working professionals, enabling India with technology creators.

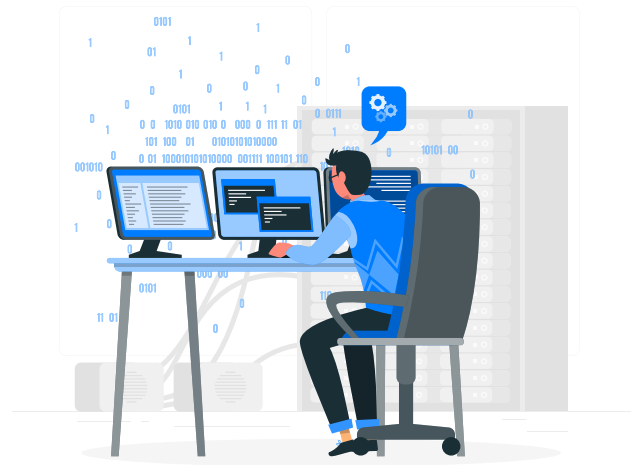


Why JAVA??

Java is widely used in developing desktop apps, mobile apps, server side application, video games, etc. Apart from being the “heart and soul” of android applications, it is also being used for more than 4.5 billion gadgets which includes: Car Navigation Systems, Cellphones. A revolutionary programming language that has completely changed the way programming is done by software programmers worldwide

Outcomes to Expect

- 01 Career Guidance
- 02 Project Building
- 03 Live technology training in industry's leading domain
- 04 Assessments and Assignments for your better evaluation
- 05 Industry Recognized Certificate



Who should apply?

Anyone pursuing a professional degree and interested in the technical domain is eligible. Irrespective of your current college year or the field of your studies, you can apply for this internship.

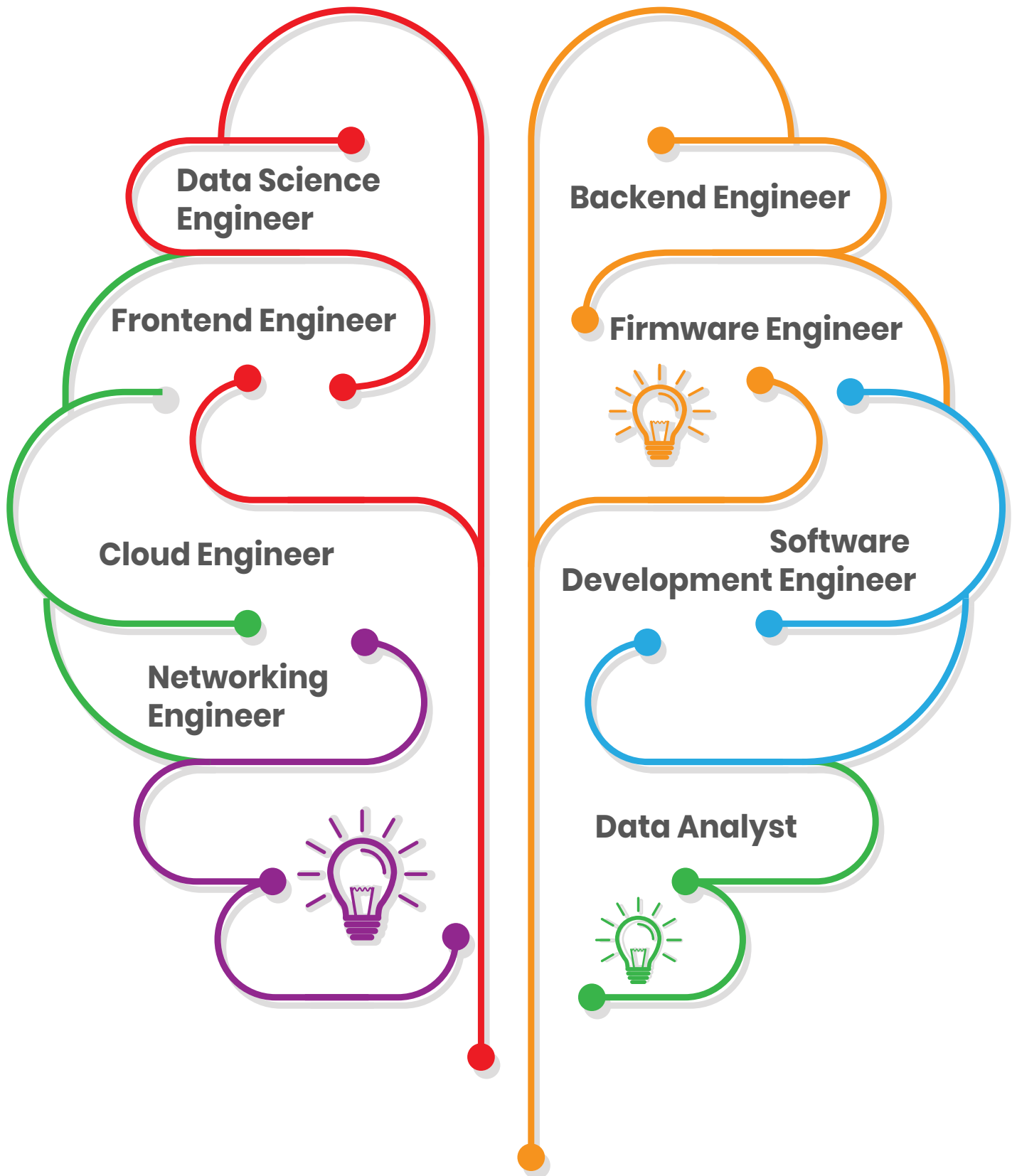
Java Programming

Upon successful completion of this course, one will have the ability to write Java code according to a project specification along with the ability to develop Java modules following standard industry practices and conventions and the ability to properly design data structures and the algorithms to transform them.

Why should you learn this?

Java is for those who want to develop applications & become industry ready with this powerful language. Those who have just started learning algorithms and wondered how impactful it will be to boost their career/programming skills. It is also for those who wonder why big companies like Google, Facebook, and Amazon hire programmers who are exceptionally good at optimizing applications.

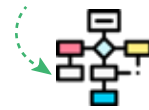
Career Opportunities



Key Takeaways



Data Structures



Algorithm



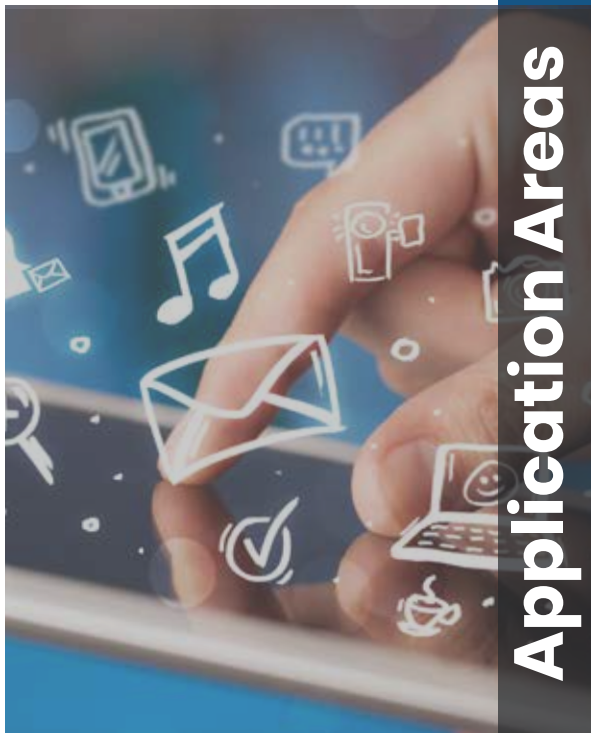
Project management



Programming skills



Solve interview
coding questions



Application Areas

- Software Development
- Applications Development
- Algos Development
- Production
- Service- based Industries



Your Success is Our Success

50+

Hiring Partners

200K+

Learners

300+

Institution Tie-ups

25+

Technology Experts

45+

Technologies

10K+

Sessions Delivered

Curriculum

01. Introduction to Programming

4 hrs

- ❖ What is a programming Languages?
- ❖ Types of Programming Languages
- ❖ Static vs dynamic languages
- ❖ Memory Management
- ❖ Garbage Collection

02. Introduction to Java

4 hrs

- ❖ Code Execution Flow
- ❖ Java Architecture - JDK,JVM,JRE,JIT
- ❖ Basics Terminology
- ❖ Platform Independence of Java Code
- ❖ Installation
- ❖ Hello World Program

03. Java Basics

6 hrs

- ❖ Structure of Java Program
- ❖ Functionality of basic keyword
- ❖ Primitive Data Types
- ❖ Taking input from the user
- ❖ Type conversion
- ❖ Type casting
- ❖ Type Promotion in Expressions

04. Control Flow

4 hrs

- ❖ Conditional statements
- ❖ Loop - for, while and do-while
- ❖ Switch Statement

05. Functions

5 hrs

- ❖ Basic Function
- ❖ Parameterized Function
- ❖ Advance concepts – Scope, Shadowing
- ❖ Variable arguments
- ❖ Function Overloading

06. File Handling

4 hrs

- ❖ Stream
- ❖ File Method
- ❖ File Operations

07. Exception Handling

4 hrs

- ❖ Basic Exception Handling
- ❖ Types of Exception Handling

07. Exception Handling

2 hrs

- ❖ Basic Exception Handling
- ❖ Types of Exception Handling

08. String

2 hrs

- ❖ String Basics
- ❖ String Comparison Operations
- ❖ String Search Operations
- ❖ Slice Operations
- ❖ String Replace Operations
- ❖ String Conversion Operations

09. Object Oriented Programming

6 hrs

- ❖ Concept of Classes and Objects
- ❖ Methods in Java
- ❖ Method Overloading

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- ❖ Methods in Java
- ❖ Method Overloading
- ❖ Access Specifiers in Java
- ❖ Constructor
- ❖ Data Encapsulation
- ❖ Static Keyword
- ❖ Concept of Main Method
- ❖ Class and Object

10. Special Classes in Java

3 hrs

- ❖ Math
- ❖ String Builder Class
- ❖ Strings Builder Methods
- ❖ Scanner Class
- ❖ Random Class
- ❖ UUID Class

11. New in Java 10

3 hrs

- ❖ Var Keyword
- ❖ Concept of Garbage Collector (GC) and Java 10 Update in GC
- ❖ Other Updates in Java 10

12. Inheritance and Abstraction

3 hrs

- ❖ Inheritance in Java
- ❖ Method overriding
- ❖ Polymorphism
- ❖ Super Keyword
- ❖ Super Class Constructor
- ❖ Protected Access
- ❖ Abstraction
- ❖ Interface
- ❖ Final Keyword

13. Arrays

2 hrs

- ❖ Arrays in Java
- ❖ Array Object
- ❖ Modified / Enhanced For Loop
- ❖ Array Exercise
- ❖ 2-Dimensional Array
- ❖ 2-D Array Exercise
- ❖ Array of OBJECT

14. Lists

2 hrs

- ❖ Array List
- ❖ Linked List Structure
- ❖ Linked List
- ❖ ArrayList vs LinkedList
- ❖ List Iterator

15. Sets and Maps

2 hrs

- ❖ Hash Set
- ❖ Linked Hash Set
- ❖ Tree Set
- ❖ Iterating over Sets
- ❖ Hash Map
- ❖ Tree Map
- ❖ Iterating on Maps

16. Regular Expressions

2 hrs

- ❖ Introduction to RegEx
- ❖ Quantifiers
- ❖ Character Class
- ❖ Bracket Expressions in RegEx
- ❖ OR Operator
- ❖ Dot Operator
- ❖ Greedy and Lazy Matching

- ❖ RegEx Exercise 1
- ❖ RegEx Exercise 2
- ❖ Regularizing Number Ranges"

17. Project Development

2 hrs

Develop Your Projects based on above Learning



LEARN AND BUILD
IS NOW AVAILABLE IN
13 CITIES 📍



CONTACT US

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