

CORE JAVA BASIC TO ADVANCED

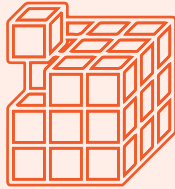
Learn CORE Java, Foundation for Advanced Java,
and Related Technologies



JOIN GRRAS FOR
JOB READY SKILLS

What is Core JAVA?

Core Java refers to the fundamental components of the Java programming language that form the base for all Java development. It encompasses:



Basic Syntax and Structure

Includes Java's syntax, variables, data types, operators, loops, and conditional statements.



Object-Oriented Programming

Covers classes, objects, inheritance, polymorphism, encapsulation, and abstraction.



Java Standard Library

Utilizes core libraries like `java.lang`, `java.util`, `java.io` for input/output operations, collections, and exception handling.



Platform Independence

Java programs can run on any device with a Java Virtual Machine (JVM), ensuring cross-platform compatibility.



Basic APIs

Includes networking, concurrency (threads), GUI development (Swing, AWT), and database connectivity (JDBC).



Foundational Knowledge

Core Java forms the foundational knowledge required for developing Java applications across various domains. It helps lay the groundwork for more specialized Java development paths such as enterprise Java development, web development with frameworks like Servlets and JSP, and more.

Difference Between CORE Java & Advanced Java

Core Java refers to the fundamental components of the Java programming language that form the base for all Java development. It encompasses:

CORE JAVA

Basic syntax, data types, control structures

Object-Oriented Programming concepts

Standard Libraries like java.lang, java.util

Threads, exceptions, generics

Platform Independence

Basic APIs like IO, collections, networking

Desktop apps, basic web applications

Foundational knowledge for Java developers

ADVANCED JAVA

Servlets, JSP, JDBC

Java EE, Spring Framework

Additional Libraries like Struts, Hibernate

EJB, JMS, JMX

Scalability and Performance Tools

Advanced web technology MVC architecture

Enterprise-level applications, web services

Specialized tools for specific development needs

Why Should You Learn CORE Java?

Core Java is a high-level general-purpose programming language that provides programmers with a simple, robust and secure environment with features like platform independence, memory management, concurrent execution of programs, and optimized performance.

For someone who wishes to pursue a career in software development, Core Java is the most important aspect to be learned, as being specialized in a domain will equip you in your career path with your set of tools.



How Does Core Java Propel Your Career Growth?

Foundation for Advancement

It serves as a stepping-stone to Advanced Java and related technologies, providing essential knowledge before advancing further.

Versatile and Essential

Core Java is fundamental for developing general-purpose applications, making it indispensable in almost every sector.

Community Support

A robust community provides resources, frameworks, and updates, facilitating continuous learning and development.

Career Stability

Mastering Core Java enhances career stability and offers opportunities for growth in the ever-evolving tech industry.

Industry Demand

Java is indispensable across various industries, ensuring your skills are consistently in demand.

Global Use

It serves as a stepping-stone to Advanced Java and related technologies, providing essential knowledge before advancing further.

Scalable

Java's scalability allows applications to handle increasing demands and data volumes effectively.

Secure

Built-in security features in Java frameworks ensure robust protection against vulnerabilities and threats.

JAVA Job Market

Top Global organizations like Amazon, Google, Microsoft, Uber Technologies Inc., Capgemini, Cognizant Technology Solutions, HCLTech, and Netflix, among other big players need candidates with strong CORE Java skills. Attractive pay packages (INR 4.7 to INR 6 LPA), job opportunities and salary packages are available for the right candidate with the right skills.

For someone who wishes to pursue a career in software development, Core Java is the most important aspect to be learned, as being specialized in a domain will equip you in your career path with your set of tools.

▲ **5 LPA**
Avg Salary Fresher

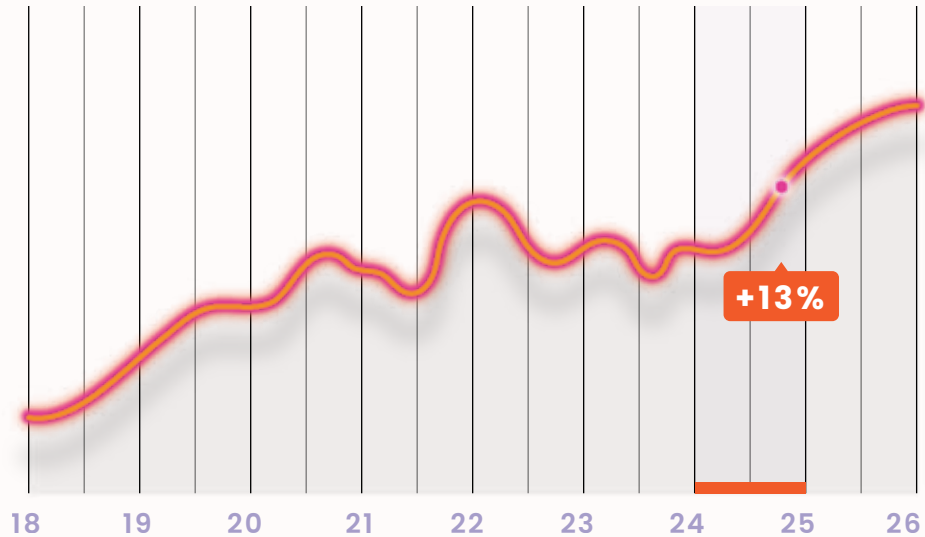
WEB DEVELOPMENT

MERN

JAVA DEVELOPERS

▲ **4094 M**
USD of 2028

The projected demand growth for Java developers is 13% from 2018-2028



(source: ambition box)

▲ **11%**

Salaries have increased by 11% for Java developers in the last 5 years

What Does This Mean for You?



Growing demand for Java developers.



Competitive salaries with upward trends.



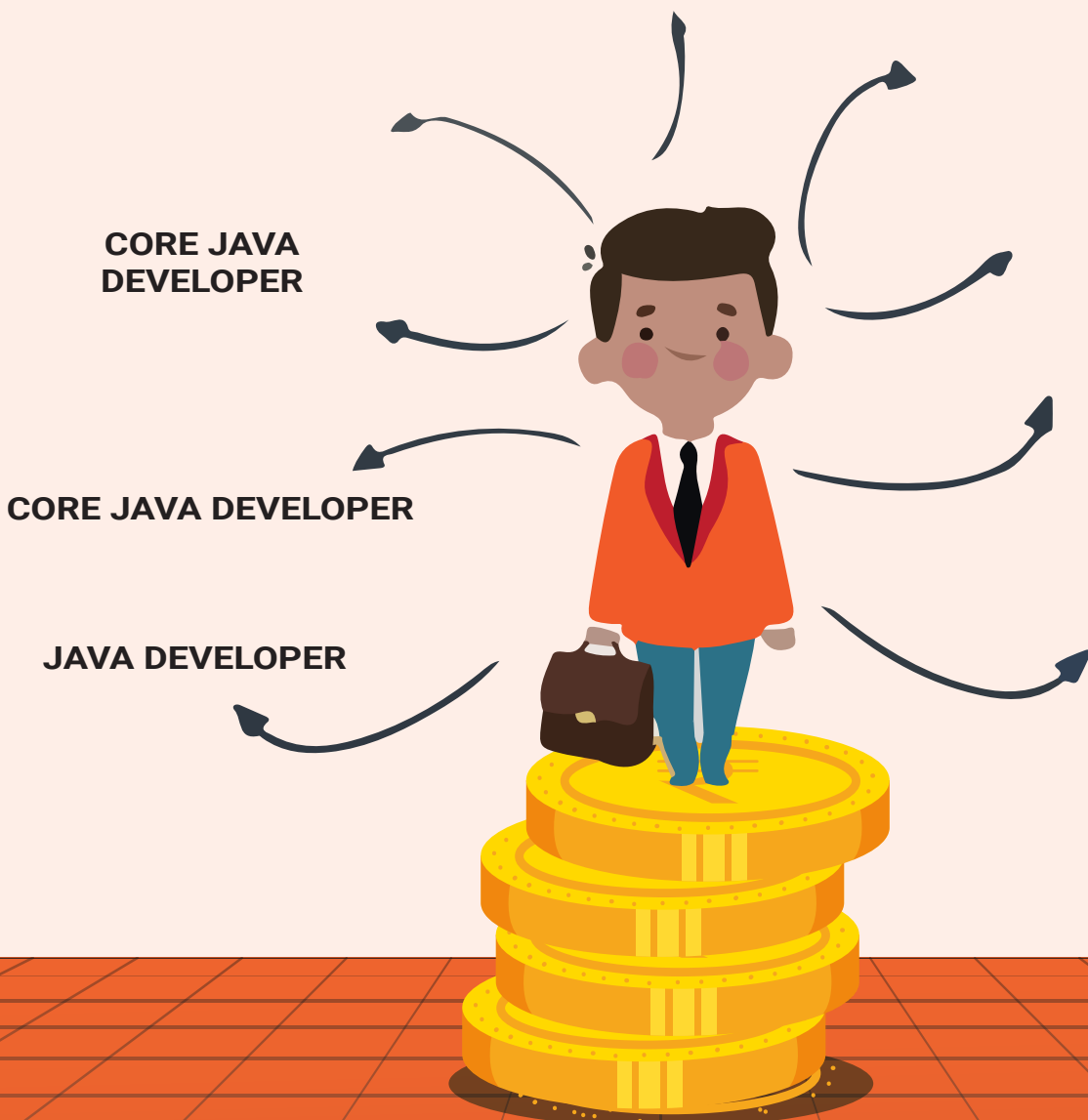
Stable career prospects with growth opportunities.



Valued skills across diverse sectors.

Future Opportunities For You

Post Completion of your program, you can apply for the following roles:



Who Should Do This Course?



Beginners

Individuals new to programming or Java specifically.



Students

Pursuing a career in software development or computer science.



Professionals

Seeking to solidify their foundational Java skills.



Aspiring Developers

Interested in learning object-oriented programming concepts.



Career Changers

Transitioning into software development or related fields.



Anyone

Looking to build a strong foundation in Java for various application development needs.

Course timeline



Recent Graduates,
Working Professionals



College Students
in Their 3rd or 4th Year



Coding Enthusiasts
Who Want to Upskill



Course Duration



Sessions



Class Format

Microsoft Excel

- Getting Started with Excel
- Workbook Protection & Security
- Data Formats, Data Formatting & Alignment
- Hands on Practice on Short Keys
- Conditional Formatting
- Advanced Conditional Formatting techniques
- Graphs & Charts
- Advanced Charts – Waterfall/ Bridge Graphs
- Data Tools- Filtering, Sorting, Remove Duplicates, Data Validation, Grouping
- Absolute and Relative Referencing Concepts
- Case Studies on Absolute and Relative Referencing
- Specialized Functions/Formulas
- Lookup Functions
- Vlookup & its Limitations, Hlookup, Index Match, Hyperlink, Indirect, Offset, Transpose
- Vlookup Case Studies
- Vlookup General Problems, Vlookup with Match Function, Vlookup using (*) problems, Vlookup using Running Countif, Nested Vlookup
- Text Formulas –
 - Char, Concatenate, Exact, Find, Left, Right, Proper, Search, Mid, Upper
- Logical Formulas –
 - And, If, IfError, Not, OR, True
- Date Time Formulas -
 - Day, Date, Hour, Minute, Second, Time, Month, Year, Today, Weekday, Now
- Mathematical Formulas –
 - Sum, Sumif, Sumifs, Count, Countif, Mod, Product, Sumproduct, Roundup, Array
- Formulas
- Pivot Reports/ Dashboard
 - Pivot Table & Pivot Charts
 - Waterfall Mode

SQL

- Databases
- Introduction to DBMS
- Popular DBMS Software
- Concepts of RDBMS
 - Tables
 - Tuples
 - Attributes

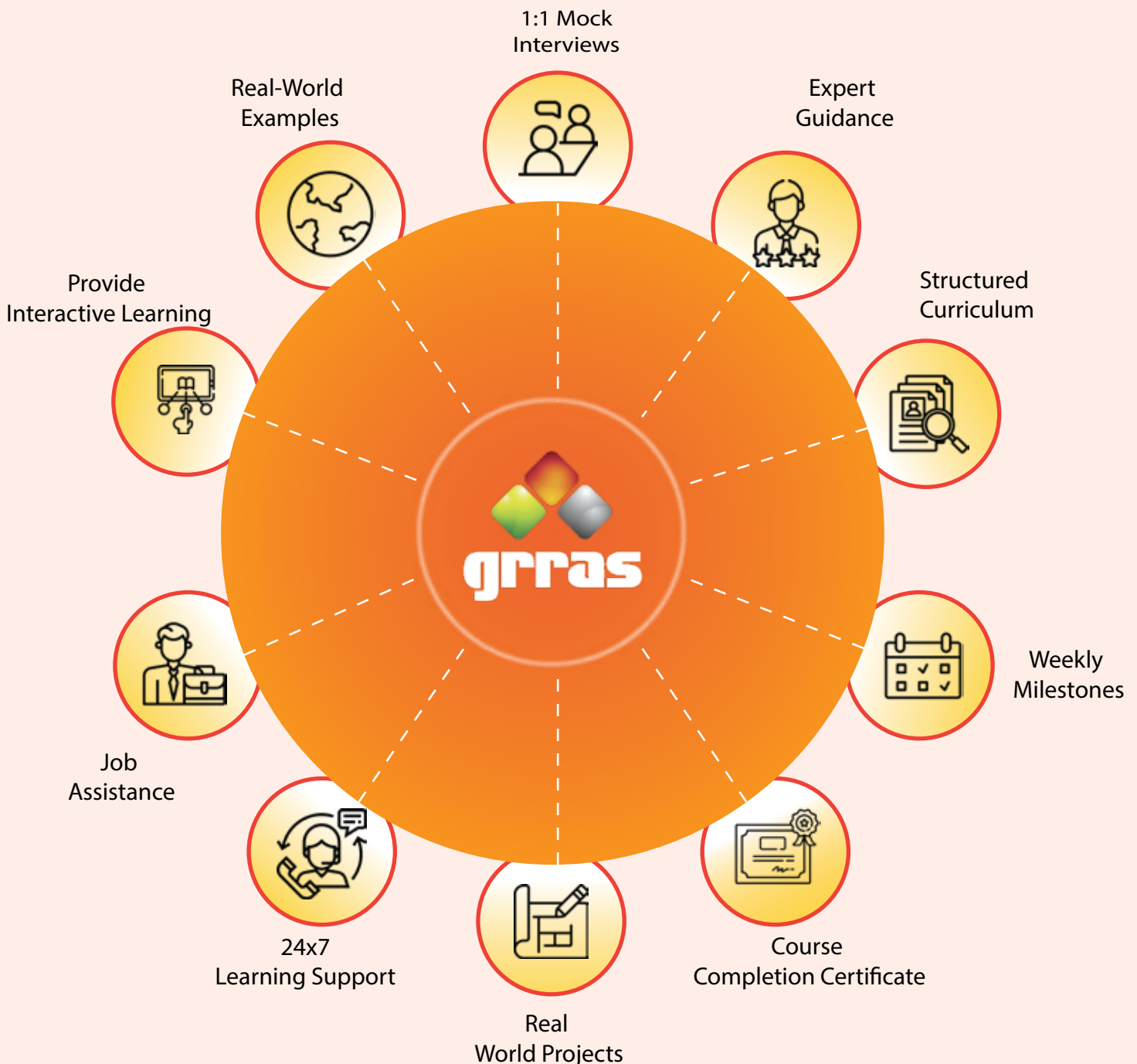
- Comparison
- Types of SQL Commands
- Data Definition Language
 - Create, Drop, Truncate, Alter and Rename Objects
- Data Query Language
 - Select Statements
- Data Manipulation Language
- DCL and TCL
 - Grant, Revoke and transaction statements
- SQL Data Types
 - Numeric, Date and Time, LOB Types
- DML Commands
 - Insert, Update and Delete Statements
- DDL Commands
 - Create and Drop Databases
- SQL Transactions
 - Examples
- ACID Properties
- TCL Statements
 - Start, Commit and Rollback Statements
- Auto Commit
- SavePoints
 - Identifier
 - Rollback and Release
- Database Objects
- Tables
 - Creating, Altering and dropping tables
- Views
 - Advantages
 - Creating and Dropping Views
- Indexes
- Stored Objects
 - Types of Stored Objects
- Stored Procedures
- Operators and Functions
- Joining Tables
 - Inner Join, Left Join, Right join
- Advantages of Procedures
- Database Triggers Accessing Database From R and Python
- Triggers

Python

- Installation of Python
- Python Strings
- Python Lists
- Python Datatypes & Python Loops
- Python Tuples
- Python Dictionary
- Python Date & Time
- Python Operators
- Python Functions
- Python I/O Functions
- Debugging & Python Database Access – MySQL
- Working with CSV & Excel Files
- Advanced Data Types
 - Deque in Python
 - Python Dict
 - Python Tuples
 - Python Frozenset
 - Difference between List, Tuple, Dict, Set, FrozenSet
- Python Comprehensions
 - List Comprehensions
 - Set Comprehensions
 - Dictionary Comprehensions
 - Set Comprehensions
- Numpy
- Pandas
- Data Analysis & Visualization in Python
- Web Scrapping
- Email Automation

Why GRRAS for Core Java?

Learning data analytics from GRRAS Solutions equips you with industry- and job-ready skills. It enhances your chances of getting placed in top organizations, opening numerous opportunities for career growth.



100% Job Assistance

Yes, you heard it right! Our course not only offers expert learning but also guarantees 100% job assistance. With a dedicated team of job coordinators and 500+ hiring partners, we're committed to ensuring your success in landing your dream job.

CERTIFICATION

Get an accredited and recognized certificate upon successful completion of the course.



Interview Lineup

Unlock opportunities after certification with our exclusive Interview Lineup support. We'll connect you with tailored interviews to jumpstart your career journey.



Lifetime Career Support

Our commitment doesn't end at certification. Benefit from lifelong career support, guiding you through job switches and career advancements.

When Our Students Succeed, We Succeed!

Where Our Proud Alumni SHINE



and **500+** companies

Hear It Directly From Our Students!



“ Shalu Sharma

Hi my name is shalu sharma, I recently completed a data analyst course at Grass Solution Pvt. Ltd. The experience was excellent, providing me with valuable skills. Thanks to their training, I secured a position at Assessinfra Technology Pvt. Ltd. as a data analyst. I highly recommend Grass Solution for anyone looking to enter the field.



“ Aman Kumar Sharma

Hello, My name is Aman Sharma. I want to take this opportunity to share my views about the business analytics course at Grras Solutions. The content and teaching concepts by the trainers were consistently high quality and engaging. The practical exercises were helpful in offering a 'hands-on' experience. The interactive environment and live classes are straightforward to understand the problem. The instructor was not only knowledgeable and informative, but he also had the real-world experience to understand our needs and the ability to bring solutions to the IT field.



“ Rishabh Mantri

I did a Data Analytics course from here. I think Grass Solution is best than any other online and offline courses which was offered by any other Institute. The faculty is very good, friendly and teach each and every concept with full clarity. They will hold your back until you are not placed and after the placement also.



“ Deepak Rathore

Hello, I am Deepak Rathore & I recently completed a data analytics course from Grras solutions Jaipur and I can confidently say that it was one of the best decisions I've made. The instructors were knowledgeable and engaging, and the course content was well organized and relevant to current industry trends. I gained a lot of practical skills in data analysis and visualization, and the hands-on projects were a great way to apply what I learned.

As someone with no prior experience in data analytics, I was a.....



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