

## Global Logic (JAVA) Learning Content 2024

Sr No.	Topic Name	Sub Topics	Important Links
1	Java Essential		
		Java Overview	<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Basics	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Input/Output	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Flow Control	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Operators	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Arrays	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Strings	<a href="https://www.geeksforgeeks.org/string-tokenizer-class-in-java/?ref=bp">https://www.geeksforgeeks.org/string-tokenizer-class-in-java/?ref=bp</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java OOPs Concepts	<a href="https://www.geeksforgeeks.org/string-builder-class-in-java/">https://www.geeksforgeeks.org/string-builder-class-in-java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Classes	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Interfaces	<a href="https://www.geeksforgeeks.org/java-inner-class">https://www.geeksforgeeks.org/java-inner-class</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Methods	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Packages	<a href="https://www.geeksforgeeks.org/java/">https://www.geeksforgeeks.org/java/</a>
			<a href="https://www.javatpoint.com/java-tutorial">https://www.javatpoint.com/java-tutorial</a>
		Java Collection Framework	<a href="https://www.javatpoint.com/collections-in-java">https://www.javatpoint.com/collections-in-java</a>
			<a href="https://www.geeksforgeeks.org/collections-in-java-2/">https://www.geeksforgeeks.org/collections-in-java-2/</a>
		Java Collection Classes	<a href="https://www.javatpoint.com/java-collections-class">https://www.javatpoint.com/java-collections-class</a>
		Java Memory Allocation	<a href="https://www.geeksforgeeks.org/memory-management-in-java">https://www.geeksforgeeks.org/memory-management-in-java</a>
			<a href="https://www.javatpoint.com/stack-vs-heap-java">https://www.javatpoint.com/stack-vs-heap-java</a>
		Java Exception Handling	<a href="https://www.javatpoint.com/exception-handling-in-java">https://www.javatpoint.com/exception-handling-in-java</a>
			<a href="https://www.javatpoint.com/java-regex">https://www.javatpoint.com/java-regex</a>
		Java Regex	
		Debugging the Java Program using IntelliJ	
2	Java Language Features		
		Generics	<a href="https://www.javatpoint.com/generics-in-java">https://www.javatpoint.com/generics-in-java</a>
		JDBC	<a href="https://www.javatpoint.com/java-jdbc">https://www.javatpoint.com/java-jdbc</a>
			<a href="https://www.javatpoint.com/design-of-jdbc">https://www.javatpoint.com/design-of-jdbc</a>
			<a href="https://www.javatpoint.com/java-8-jdbc-improvements">https://www.javatpoint.com/java-8-jdbc-improvements</a>
		Lambda Expressions	<a href="https://www.javatpoint.com/java-lambda-expressions">https://www.javatpoint.com/java-lambda-expressions</a>
		Functional Interfaces	<a href="https://www.javatpoint.com/java-8-functional-interfaces">https://www.javatpoint.com/java-8-functional-interfaces</a>
		Method Reference	<a href="https://www.javatpoint.com/java-8-method-reference">https://www.javatpoint.com/java-8-method-reference</a>
		Streams	<a href="https://www.javatpoint.com/java-8-stream">https://www.javatpoint.com/java-8-stream</a>
		Comparable and Comparator	<a href="https://www.javatpoint.com/comparator-interface-in-collection-framework">https://www.javatpoint.com/comparator-interface-in-collection-framework</a>
			<a href="https://www.javatpoint.com/comparable-interface-in-collection-framework">https://www.javatpoint.com/comparable-interface-in-collection-framework</a>
		Optional Class	<a href="https://www.javatpoint.com/java-8-optional">https://www.javatpoint.com/java-8-optional</a>
		Date/Time API	<a href="https://www.javatpoint.com/java-date">https://www.javatpoint.com/java-date</a>
		Sealed Class	<a href="https://www.javatpoint.com/sealed-class-in-java">https://www.javatpoint.com/sealed-class-in-java</a>
		Record	
		Test blocks	
		JUnit	<a href="https://www.javatpoint.com/junit-tutorial">https://www.javatpoint.com/junit-tutorial</a>
		Spring Boot	<a href="https://www.javatpoint.com/spring-boot-architecture">https://www.javatpoint.com/spring-boot-architecture</a>
			<a href="https://www.javatpoint.com/spring-boot-tutorial">https://www.javatpoint.com/spring-boot-tutorial</a>

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		RestFul Web Services	<a href="https://www.javatpoint.com/restful-web-services-spring-boot">https://www.javatpoint.com/restful-web-services-spring-boot</a>
3	Algorithms		
		Searching Algorithm	<a href="https://www.javatpoint.com/linear-search">https://www.javatpoint.com/linear-search</a>
		Sorting Algorithm	<a href="https://www.javatpoint.com/binary-search">https://www.javatpoint.com/binary-search</a> <a href="https://www.javatpoint.com/insertion-sort">https://www.javatpoint.com/insertion-sort</a> <a href="https://www.javatpoint.com/selection-sort">https://www.javatpoint.com/selection-sort</a> <a href="https://www.javatpoint.com/bubblesort">https://www.javatpoint.com/bubblesort</a> <a href="https://www.javatpoint.com/mergesort">https://www.javatpoint.com/mergesort</a> <a href="https://www.javatpoint.com/quick-sort">https://www.javatpoint.com/quick-sort</a>
		Divide and Conquer Algorithm	<a href="https://www.javatpoint.com/divide-and-conquer-introduction">https://www.javatpoint.com/divide-and-conquer-introduction</a>
		Greedy Algorithms	<a href="https://www.javatpoint.com/greedy-algorithms">https://www.javatpoint.com/greedy-algorithms</a>
		Dynamic Programming	<a href="https://www.javatpoint.com/dynamic-programming">https://www.javatpoint.com/dynamic-programming</a>
		Recursion	<a href="https://www.javatpoint.com/recursion-in-java">https://www.javatpoint.com/recursion-in-java</a>
		Backtracking	<a href="https://www.javatpoint.com/backtracking-in-java">https://www.javatpoint.com/backtracking-in-java</a>
		Pattern Matching	<a href="https://www.javatpoint.com/wildcard-pattern-matching">https://www.javatpoint.com/wildcard-pattern-matching</a>
4	Data Structures		
		Introduction	<a href="https://www.javatpoint.com/fundamental-of-ds-data-structure">https://www.javatpoint.com/fundamental-of-ds-data-structure</a>
		Arrays	<a href="https://www.geeksforgeeks.org/introduction-to-arrays-data-structure-and-algorithms-tutorial/">https://www.geeksforgeeks.org/introduction-to-arrays-data-structure-and-algorithms-tutorial/</a> <a href="https://www.howtored.com/learning-hub/blogs/arrays-in-data-structure/">https://www.howtored.com/learning-hub/blogs/arrays-in-data-structure/</a> <a href="https://www.hackerrank.com/challenges/arrays-ds/problem">https://www.hackerrank.com/challenges/arrays-ds/problem</a>
		String	<a href="https://www.geeksforgeeks.org/string-data-structure/">https://www.geeksforgeeks.org/string-data-structure/</a>
		Linked Lists	<a href="https://www.knowledgelut.com/blog/web-development/string-data-structure">https://www.knowledgelut.com/blog/web-development/string-data-structure</a>
		Stack	<a href="https://www.javatpoint.com/ds-linked-list">https://www.javatpoint.com/ds-linked-list</a>
		Queue	<a href="https://www.javatpoint.com/dan-structure-stack">https://www.javatpoint.com/dan-structure-stack</a>
		Heap	<a href="https://www.javatpoint.com/dan-structure-queue">https://www.javatpoint.com/dan-structure-queue</a>
		Tree	<a href="https://www.geeksforgeeks.org/heap-data-structure/">https://www.geeksforgeeks.org/heap-data-structure/</a>
		Graph	<a href="https://www.tutorialspoint.com/data_structures_algorithms/heap_data_structure.htm">https://www.tutorialspoint.com/data_structures_algorithms/heap_data_structure.htm</a> <a href="https://www.javatpoint.com/tree">https://www.javatpoint.com/tree</a>
5	PostgreSQL		
		PostgreSQL — Introduction	<a href="https://www.datacamp.com/tutorial/beginners-introduction-postgresql">https://www.datacamp.com/tutorial/beginners-introduction-postgresql</a> <a href="https://www.geeksforgeeks.org/postgresql-tutorial/">https://www.geeksforgeeks.org/postgresql-tutorial/</a> <a href="https://www.tutorialspoint.com/postgresql/postgresql_overview.htm">https://www.tutorialspoint.com/postgresql/postgresql_overview.htm</a>
		Basics Operations	<a href="https://www.datacamp.com/tutorial/beginners-introduction-postgresql">https://www.datacamp.com/tutorial/beginners-introduction-postgresql</a>
		Data Types	<a href="https://www.geeksforgeeks.org/postgresql-tutorial/">https://www.geeksforgeeks.org/postgresql-tutorial/</a> <a href="https://www.tutorialspoint.com/postgresql/postgresql_overview.htm">https://www.tutorialspoint.com/postgresql/postgresql_overview.htm</a> <a href="https://www.datacamp.com/postgresql-tutorial/">https://www.datacamp.com/postgresql-tutorial/</a>
		Querying & Filtering Data	<a href="https://www.datacamp.com/tutorial/beginners-introduction-postgresql">https://www.datacamp.com/tutorial/beginners-introduction-postgresql</a> <a href="https://www.geeksforgeeks.org/postgresql-tutorial/">https://www.geeksforgeeks.org/postgresql-tutorial/</a> <a href="https://www.tutorialspoint.com/postgresql/postgresql_overview.htm">https://www.tutorialspoint.com/postgresql/postgresql_overview.htm</a>
		Managing Tables	<a href="https://www.postgresqltutorial.com/">https://www.postgresqltutorial.com/</a>
		Modifying Data	<a href="https://www.geeksforgeeks.org/postgresql-tutorial/">https://www.geeksforgeeks.org/postgresql-tutorial/</a> <a href="https://www.datacamp.com/tutorial/beginners-introduction-postgresql">https://www.datacamp.com/tutorial/beginners-introduction-postgresql</a> <a href="https://www.tutorialspoint.com/postgresql/postgresql_overview.htm">https://www.tutorialspoint.com/postgresql/postgresql_overview.htm</a>
		Transactions and Constraints	<a href="https://www.datacamp.com/tutorial/beginners-introduction-postgresql">https://www.datacamp.com/tutorial/beginners-introduction-postgresql</a> <a href="https://www.geeksforgeeks.org/postgresql-tutorial/">https://www.geeksforgeeks.org/postgresql-tutorial/</a> <a href="https://www.tutorialspoint.com/postgresql/postgresql_overview.htm">https://www.tutorialspoint.com/postgresql/postgresql_overview.htm</a>
		Working with Joins and Schemas	<a href="https://www.postgresqltutorial.com/postgresql-administration/postgresql-joins/">https://www.postgresqltutorial.com/postgresql-administration/postgresql-joins/</a> <a href="https://www.postgresqltutorial.com/postgresql-schemas/">https://www.postgresqltutorial.com/postgresql-schemas/</a>
		Stored Procedures	<a href="https://www.postgresqltutorial.com/postgresql-views/">https://www.postgresqltutorial.com/postgresql-views/</a> <a href="https://www.tutorialspoint.com/postgresql/postgresql_overview.htm">https://www.tutorialspoint.com/postgresql/postgresql_overview.htm</a>

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		Working with Views & Indexes	<a href="https://www.postgresqltutorial.com/postgresql-views/">https://www.postgresqltutorial.com/postgresql-views/</a> <a href="https://www.postgresqltutorial.com/postgresql-indexes/">https://www.postgresqltutorial.com/postgresql-indexes/</a>						
6	MongoDB								
		Introduction	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Installation	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Basics of MongoDB	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		MongoDB Methods	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		MongoDB Operators	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Working with Documents and Collections	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Indexing in MongoDB	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Export data from MongoDB	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Import data to MongoDB	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		MongoDB — Regex	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		MongoDB Projection	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		MongoDB - Embedded Documents	<a href="https://www.w3schools.com/mongodb/">https://www.w3schools.com/mongodb/</a>						
		Aggregation in MongoDB	<a href="https://www.w3schools.com/mongodb/mongodb_aggregations_intro.php">https://www.w3schools.com/mongodb/mongodb_aggregations_intro.php</a>						
		MongoDB Exercises	<a href="https://www.w3schools.com/mongodb/mongodb_exercises.php">https://www.w3schools.com/mongodb/mongodb_exercises.php</a>						