Java Course (Advance Level) 60 Days (120 Hrs.)

Sr. No.	Chapters	Sub Chapters
1	Introduction to Java	Overview of Java and its features
		Setting up the development environment (IDE, JDK)
2	Java Basics	Background of Java
		Why do we need Programming Languages
		Writing and running your first Java program
3	Variables and Data Types	Learn about variables in Java, Non-Primitive Types
		Swap two Variables, Wrapper Classes in Java.
		Autoboxing and Unboxing in Java and Type Conversion in Java
4	Input and Output in Java	Input and Output in Java
		Escape Sequences in Java
5	Operators in Java	Operators in Java
		Sum of N Natural Numbers, Find Last Digit of A Number
6	Flow Control in Java	If Else Statements and Switch Statement
		Even Odd Numbers, Largest of Three Numbers, Leap Year, Calculator
7	Loops in Java	Loop Statements: While Loop, Do While Loop, Break and Continue
8	Functions in Java	Functions and applications of Functions
		Command Line Arguments in Java
		First Digit of a Number and Prime Factorization
9	Arrays in Java	Arrays in Java introduction
10	String in Java	String Introduction and String Operations
		StringBuilder and StringBuffer
11	Classes and Objects in Java	Class and Objects, Constructors, This Reference
		Class Members and Access Specifiers, Static Members and Final

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		Keyword
12	Introduction to Collections	Java Collection Framework. Collection Hierarchy, Generics in Java
		Collection Interface, Iterator in Java
		toArray() methods, Collection operator methods and Iterating through Collections
13	Lists and Stack	List Interface and iterator, ArrayList with its working, methods and traversals
		Linked List in Java
		Stack in Java Collections,
14	Queue, Deque and Priority Queue	Queue in Java
		Deque, ArrayDeque in Java
		PriorityQueue in Java
15	Set	Set Interface, HashSet, LinkedHashSet
16	Map	Map Interface in Java and its methods, HashMap, Linked HashMap
17	String	String in Java, StringBuilder and StringBuffer and its methods