JAVA RoadMap

BEGINNER TO ADVANCED….

Java Basics

1. **Introduction to Java – [Watch here](#)**

2. **Variables and Declaration – [Watch here](#)**

3. **Variables and Updation – [Watch here](#)**

4. **Arithmetic Operations – [Watch here](#)**

5. **Naming Variables – [Watch here](#)**

6. **User Input (Scanner Class) – [Watch here](#)**

7. **Modulus Operator – [Watch here](#)**

8. **Typecasting – [Watch here](#)**

9. **Operator Hierarchy – [Watch here](#)**

10. **Char Data Type and ASCII Values – [Watch here](#)**

Control Structures

11. **Conditional Statements (Even-Odd) – [Watch here](#)**

12. **Absolute Number Function – [Watch here](#)**

13. **Operators Overview – [Watch here](#)**

14. **Ternary Operator – [Watch here](#)**

15. **Switch Statement – [Watch here](#)**

16. **Loops: For Loop Basics – [Watch here](#)**

17. **Break and Continue Keywords – [Watch here](#)**

18. **While and Do-While Loops – [Watch here](#)**

Functions and Methods

19. **Functions in Java: Syntax** – **Watch here**

20. **Function Advantages** – **Watch here**

21. **Java Methods Overview** – **Watch here**

22. **Types of Methods** – **Watch here**

Patterns and Print Statements

23. **Pattern Printing Basics (Rectangles & Squares)** – **Watch here**

24. **Triangles and Composite Patterns** – **Watch here**

25. **Number Pyramid and Star Diamond** – **Watch here**

26. **Star Diamond Patterns** – **Watch here**

Arrays and ArrayLists

27. **Array Basics (Syntax and Declaration)** – **Watch here**

28. **Array Input and Output** – **Watch here**

29. **Basic Array Questions** – Watch here

30. **ArrayList Basics** – **Watch here**

Exception handling

- **https://youtu.be/IZu5rZTN7PI?si=7W-mu7YFJEWpxOFI**

Backtracking (+ N Queens Problem)

- **Watch here**

Collections

- **Watch here**

Search and Sorting Algorithms

31. **Linear Search – Watch here**

32. **Binary Search – Watch here**

33. **Bubble Sort** - Watch here

34. **Selection Sort** - Watch here

35. **Insertion Sort** - Watch here

36. **Comparison among Bubble Sort, Selection Sort, and Insertion** - Watch here

Multi-Dimensional Arrays

37. **2D Array Basics – Watch here**

38. **2D Array Traversal –** Watch here

Strings and StringBuilder

39. **Introduction to Strings – Watch here**

40. **Basic String Operations (charAt, length) – Watch here**

41. **StringBuilder and Mutability – Watch here**

Time and Space Complexity

42. **Introduction to Time Complexity –** **Watch here**

43. **Space Complexity Basics –** **Watch here**

Hashing

1. **Hash Functions, Collisions, HashMap/HashTable Usage:** Hashing in Java

Stacks

41. **Introduction, Operations (Push, Pop), Applications :** **Stacks in Java**

Queues

42. **Types (Simple Queue, Circular Queue, Priority Queue), Applications: Queues in Java :** **Queues in Java**

Linked Lists

43. **Singly Linked List:** **Singly Linked List in Java**

44. **Doubly Linked List:** **Doubly Linked List in Java**

45. **Circular Linked List:** **Circular Linked List in Java**

Trees

46. **Binary Trees:** **Binary Tree Introduction**

47. **Binary Search Trees (BSTs):** BST in Java

48. **Balanced Trees (AVL, Red-Black):** AVL Trees

Heaps

49. **Max-Heap, Min-Heap, Applications:** [Heaps in Java](#)

50. **Insertions and deletions in heap:** [Insertions and deletions in heap](#)

Graphs

51. **Graph Representations:** [Graphs in Java](#)

52. **Graph Traversal Algorithms: BFS, DFS:** [Graph Traversals](#)

Tries

53. **Implement Trie (insert, search, starts with, count words equal to):** [Implement Trie](#)

Dynamic Programming

- **[Dynamic Programming Playlist](#)**

OOPS Notes

OOPS NOTES –

- **[Watch here](#)**

Top 100 Questions

[Top 100 Questions](#)

** Playlist Links

- **Code With Harry:** [Watch here](#)

- **Apna College:** [Watch here](#)

- **College Wallah:** [Watch here](#)

- **Striver - [Watch here](#)**

Note on Playlists

We have referred to playlists that cover the basics of Java in a beginner-friendly manner, focusing on practical examples and real-world applications. Each video is meant to build on the previous topics, ensuring a solid foundation in Java programming. Please watch each video in sequence for the best learning experience.

* Disclaimer

These videos might be unavailable after some time .

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- **Learn C++ Programming -Beginner to Advance- Deep Dive in C++**

- **Mastering Java SE programming from Beginner to Master**

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