

JAVA

Syllabus

For Beginners



STEP By STEP

ROADMAP



JAVA RoadMap for Beginners



Coding Wallah

CORE JAVA (J2SE)

This is REAL Foundation
of any Programmer
mostly same
CONCEPTS in all
Programming....

ADVANCE JAVA

J2EE



In this we learn
to Build Web-APPS
[Actual Real time - Softwares
or web-applications]

JAVA RoadMap for Beginners

→ Step -1 (Day-1)



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① Introduction Only

Don't Do PhD — (Sab kuch Nahi seekhna)

② Setup | Online Editor

③ Start Code Your 1st Program

④ Data Types & Variables

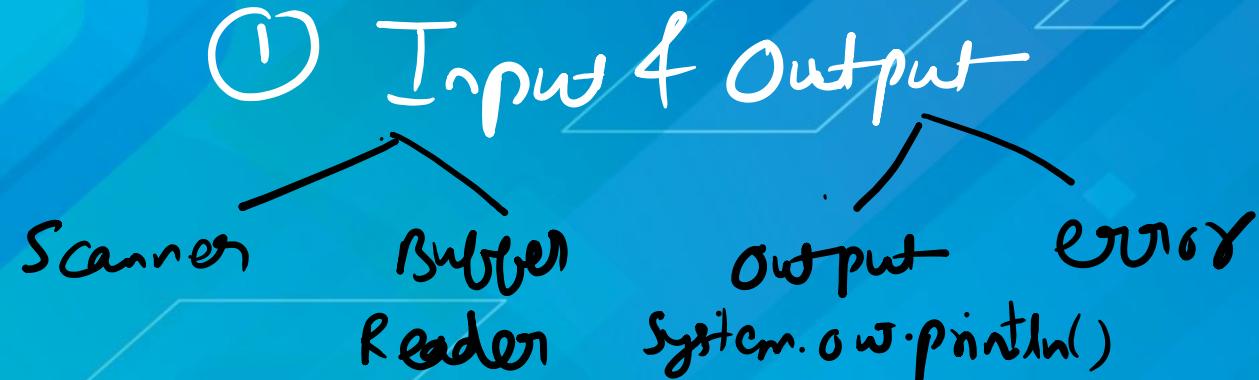
(Primitive & Non Primitive + Type Casting)
⑤ keywords, Identifiers, Comments



JAVA RoadMap for Beginners

Step -2

(Day-2)



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② Operators & SHORT-HAND OPERATORS

? : Ternary
Bitwise
Unary ++
Shift >>, <<

- ↳ Assignment operator
- ↳ Arithmetic operator
- ↳ Relational (comparison)
- ↳ Logical operators



JAVA RoadMap for Beginners

↳ **Step -3**

(Day -3)



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① CONTROL - STATEMENTS

- ↳ Conditional Statements.
- ↳ Loop Statements.
- ↳ Jump - Statements.



Note: Only Focus Each Statement
each day.

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Step -3

2 days

①

CONTROL - STATEMENTS

↳ Conditional - Statements

① if - simple

② if / else

③ Nested if

④ if / else - if Ladder

⑤ switch case - with Break & without Break.

Note:

- ① More Practical
- ② Start thinking of flow of code
- ③ MCQ output Question
- ④ Programs



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JAVA RoadMap for Beginners

↳ Step -4



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① CONTROL - STATEMENTS

↳ LOOP STATEMENTS

- ① For loop
- ② While loop
- ③ Do- while loop
- ④ Nested loop of each if possible .
- ⑤ Labelled loops.



Note:

- ① More Practical
- ② Start thinking of flow of code
- ③ MCQ output Question
- ④ Programs

JAVA RoadMap for Beginners

↳ Step -5



Note:

- ① More Practical
- ② Start thinking of flow of code
- ③ MCQ output Question
- ④ Programs

CONTROL - STATEMENTS

↳ JUMP - STATEMENTS

- ① Break
- ② Continue
- ③ Labelled Break & Continue.



Note - HAD SE JADA PRACTICAL KARO



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JAVA RoadMap for Beginners

↳ Step -6

2 ~ 3



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* ABHI TAK Jo PADHA HAI
SAB REVISE KARO (SAB MIX KARDO)

cmd (5 - 10) — Programs Banao

- ① Swapping
- ② Even Number find
- ③ Odd No. find
- ④ Prime Number
- ⑤ Factorial (5!)
- ⑥ Print or Separate Digits (123)

JAVA RoadMap for Beginners

↳ Step -7

Bhagna Nahi Hai,
Frustrate Nahi Hona
Sab Yahi Faste Hai !!.

More Programs Again

- ① Reverse Number
- ② Armstrong Number
- ③ Fibonacci Series
- ④ Start Moving to practice on Star Patterns if possible .



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JAVA RoadMap for Beginners

Step -8



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* Game of Patience... ❤️ ❤️ ❤️ ...

✗ Don't Jump to OOP's
Exception Handling, Projects Ka Lalash.



CONSOLE BASED Projects ≠ Real Time or Industry
[Log Paşa Banate Mai' Bus!] Projects.

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Step -8

Need to Understand
the logic & flow of code



Star
Patterns

MAKING READY YOURSELF FOR DSA



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- Methods & its types
- ① Simple void method.
 - ② Return Type methods.
 - ③ RT with Parameters
 - ④ Non-RT with Parameters

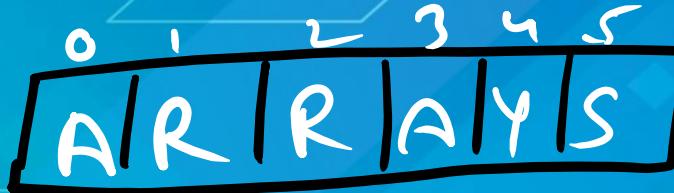
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↳ Step -9



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* 1st Data Structure (70% weightage.)



1D 2D 3D

- ↳ Travel karna
- ↳ Point karna
- ↳ Declara karna
- ↳ Input karna

* * *
Important 1D & 2D

5-10 Basic Programs.
Some OUTPUT Questions

JAVA RoadMap for Beginners

Step -10

Basic Arrays Programs

Code Practice

- 1) Java Program to print the elements of an array in reverse order
- 2) Java Program to print the elements of an array present on even position
- 3) Java Program to print the elements of an array present on odd position
- 4) Java Program to print the largest element in an array
- 5) Java Program to print the smallest element in an array
- 6) Java Program to print the number of elements present in an array
- 7) Java Program to print the sum of all the items of the array
- 8) Java Program to sort the elements of an array in ascending order
- 9) Java Program to Print Odd and Even Numbers from an array
- 10) Java Program to Find Duplicates Numbers in an array



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↳ Step -11



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2nd Most Used Data Structure

String str = "CODING WALLAH";

- ① Create with new operator and without.
- ② Taking String Input.
- ③ String Pool.
- ④ Why String are mutable.
- ⑤ Comparison b/w two string.
- ⑥ Practice Some S-I/O PROGRAMS

JAVA RoadMap for Beginners

Step -12

Basic Strings Programs

Code Practice

- 
- 1) Java Program to count the total number of characters in a string
 - 2) Java Program to count the total number of vowels and consonants in a string
 - 3) Java Program to replace lower-case characters with upper-case and vice-versa
 - 4) Java Program to determine whether two strings are the anagram
 - 5) Java Program to find all subsets of a string
 - 6) Java Program to remove all the white spaces from a string
 - 7) Java Program to replace the spaces of a string with a specific character
 - 8) Java Program to Reverse of the string
 - 9) Java Program to determine whether a given string is palindrome
 - 10) Java Program to swap two string variables without using third or temp variable.



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↳ **Step -13**

(It's Decision Time) ⚙️



→ Pure DSA (1st or 2nd year Hnai)

→ Pure Development. (Final Year Hnai)

→ DSA + Development

(Best Option Always Ager Beta Pao)



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JAVA RoadMap for Beginners

Steps

(DSA + Dev)



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→ DSA ki journey start kardo
thodi thodi



+
Side By Side JAVA Continue Rakho!!

②-OOP's

- Exception Handling
- File Handling
- Multi-threading
- Collection
- Networking

JAVA RoadMap for Beginners

You can skip, or Don't waste your time

- ↳ ① Awt & Swing.
- ↳ ② Applet programming
- ↳ ③ Faltu ke Useless Projects

Calculator
Student Mgmt.
Employee Mgmt.

Paisa Banao
Technik!!



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JAVA RoadMap for Beginners

↳ Advance Java = J2EE
[Making WEB Application]



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↳ Database Technology (MySQL & SQL)
↳ JDBC with CRUD operations
↳ JSP & Servlet
↳ Login & Registration Technik Seekho.
(session management)

JAVA RoadMap for Beginners

Industry Me Use Note Mai Frameworks

Full Stack

Frontend + Backend

HTML, CSS, JS

Bootstrap

React.js

Angular



Backend

① Hibernate.

② Spring

③ Spring Boot

④ micro-services , REST API



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CHALOO FIR...

ALL THE BEST



NO ONE N ONLY

YOUR LOVING SIR - "CODING WALLAH";



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