Practice questions for java

? BASIC JAVA (1–10)

1. Write a Java program to print **Hello World**.
2. Write a program to print your **name, age, and address**.
3. Write a program to **add two numbers**.
4. Write a program to **find the area of a rectangle**.
5. Write a program to **convert Celsius to Fahrenheit**.
6. Write a program to **swap two numbers** (using third variable).
7. Write a program to **find the square of a number**.
8. Write a program to **calculate simple interest**.
9. Write a program to **check even or odd number**.
10. Write a program to **find the largest of two numbers**.

□ IF-ELSE & SWITCH (11–20)

11. Write a program to **find the largest of three numbers**.
12. Write a program to **check positive, negative, or zero**.
13. Write a program to **check whether a year is leap year**.
14. Write a program to **check vowel or consonant**.
15. Write a program to **find grade based on marks**.
16. Write a program to **check eligible for voting**.
17. Write a program to **print day name using switch case**.
18. Write a program to **create simple calculator using switch**.
19. Write a program to **check divisible by 5 and 11**.
20. Write a program to **check alphabet, digit or special character**.

□ LOOPS (21–30)

21. Write a program to **print numbers from 1 to 10**.
22. Write a program to **print even numbers from 1 to 50**.
23. Write a program to **find sum of first N natural numbers**.
24. Write a program to **print multiplication table**.
25. Write a program to **find factorial of a number**.
26. Write a program to **reverse a number**.

27. Write a program to **check palindrome number**.
28. Write a program to **count digits in a number**.
29. Write a program to **print Fibonacci series**.
30. Write a program to **find sum of digits of a number**.

□ ARRAYS (31–40)

31. Write a program to **store and print array elements**.
32. Write a program to **find largest element in an array**.
33. Write a program to **find smallest element in an array**.
34. Write a program to **find sum of array elements**.
35. Write a program to **count even and odd numbers in array**.
36. Write a program to **search an element in array**.
37. Write a program to **sort array in ascending order**.
38. Write a program to **reverse an array**.
39. Write a program to **copy one array to another**.
40. Write a program to **2D array matrix addition**.

□ STRINGS & FUNCTIONS (41–50)

41. Write a program to **find length of a string**.
42. Write a program to **reverse a string**.
43. Write a program to **check palindrome string**.
44. Write a program to **count vowels in a string**.
45. Write a program to **convert string to uppercase**.
46. Write a program to **compare two strings**.
47. Write a program to **create a function to add two numbers**.
48. Write a program to **find maximum using function**.
49. Write a program to **check prime number using function**.
50. Write a program to **use command line arguments**.

□ CLASS & OBJECT (51–65)

51. Write a Java program to **create a class and object**.
52. Write a program to **define data members and member functions** in a class.
53. Write a program to **access class variables using object**.
54. Write a program to **initialize object using constructor**.
55. Write a program to **create parameterized constructor**.
56. Write a program to **demonstrate default constructor**.

57. Write a program to **use this keyword**.
58. Write a program to **display student details using class and object**.
59. Write a program to **create multiple objects of a class**.
60. Write a program to **use static variable and static method**.
61. Write a program to **demonstrate method overloading**.
62. Write a program to **demonstrate constructor overloading**.
63. Write a program to **use access specifiers (public, private)**.
64. Write a program to **use getter and setter methods**.
65. Write a program to **count number of objects created**.

□ INHERITANCE (66–80)

66. Write a program to **demonstrate single inheritance**.
67. Write a program to **demonstrate multilevel inheritance**.
68. Write a program to **demonstrate hierarchical inheritance**.
69. Write a program to **use extends keyword**.
70. Write a program to **access parent class method in child class**.
71. Write a program to **method overriding**.
72. Write a program to **use super keyword**.
73. Write a program to **constructor calling using inheritance**.
74. Write a program to **demonstrate runtime polymorphism**.
75. Write a program to **prevent inheritance using final keyword**.
76. Write a program to **show IS-A relationship**.
77. Write a program to **inherit properties of Vehicle class**.
78. Write a program to **calculate salary using inheritance**.
79. Write a program to **inherit bank account class**.
80. Write a program to **override toString() method**.

□ EXCEPTION HANDLING (81–95)

81. Write a program to **handle ArithmeticException**.
82. Write a program to **handle ArrayIndexOutOfBoundsException**.
83. Write a program to **use try and catch block**.
84. Write a program to **use multiple catch blocks**.
85. Write a program to **use finally block**.
86. Write a program to **handle NumberFormatException**.
87. Write a program to **throw an exception using throw keyword**.
88. Write a program to **use throws keyword**.
89. Write a program to **create user-defined exception**.

90. Write a program to **handle exception without terminating program**.
91. Write a program to **demonstrate nested try block**.
92. Write a program to **catch multiple exceptions in one catch**.
93. Write a program to **handle divide by zero exception**.
94. Write a program to **validate age using exception**.
95. Write a program to **custom exception for insufficient balance**.

□ EXTRA (Very Important for Exams) (96–100)

96. Write a program to **demonstrate abstract class**.
97. Write a program to **demonstrate interface**.
98. Write a program to **implement multiple inheritance using interface**.
99. Write a program to **difference between abstract class and interface (program)**.
100. Write a program to **use package and import statement**.