Madhu tech skills
Computer Education

3 – 02 - 2025

1. What is Java?

2. What is a language?

3. What is a programming language?

4. What is the difference between a language and a programming language?

5. What is a program?

6. What is a Unicode value?

7. What is the use of Unicode or ASCII value?

8. What is a token?

9. What is a statement?

10. What is a software?

11. What is a translator?

12. Who invented Java?

13. What is the job of java compiler?

14. Compiler mannerism?

15. Interpreter mannerism?

16. What is the use of JIT compiler?

17. What is the command to compile the code?

18. What is the command to run the program?

19. Why Java is called as Object-Oriented Programming Language?

20. What is byte code?

21. Why byte code is called as byte code?

22. Why Java is called as platform independent programming language?

23. What is automatic memory management?

24. What is heap memory ?

25. What is JVM memory ?

26. What is GC (Garbage Collector)?

27. What is the starting point of the java program ?

28. Can I write a main() method outside the class ?

29. What is key word ?

30. List of tokens supported by java ?

31. Write any simple programme in java ?

32. How to download and install Java?

33. Where we can find tools like java,javac,Javadoc, jar etc..?

34. Why we set a path?

35. What is path?

36. There are 2 types of environment variables
37. How to see the environment variables in a system ?
38. What are tools?
39. How to set the path for those tools?
40. What is the use of javac tool?
41. What is compiler?
42. What is byte code?
43. What is JVM?
44. What is a .class file?
45. Who generates .class file?
46. What is Naming Conventions
47. **Basic Java Keywords**
48. What is the purpose of the final keyword in Java? Can you give examples of how it's used?
49. What does the static keyword mean in Java, and where can it be used?
50. Explain the use of the transient keyword. When would you use it in a class?
51. What is the difference between super and this in Java?
52. What does the volatile keyword do in Java?
53. What is the difference between abstract and interface in Java?
54. How do the public, private, protected, and default (package-private) access modifiers work in Java?
55. What is the synchronized keyword used for?
56. Explain the difference between instanceof and getClass() in Java.
57. What does the return keyword do? Can it be used in constructors?

Advanced Java Keywords

58. What is the native keyword used for?
59. Can you explain the concept of strictfp in Java? When would you use it?
60. What does the enum keyword represent in Java, and how is it different from a class or an interface?
61. Explain the role of the throws keyword in Java. How does it relate to exception handling?
62. What is the significance of the new keyword in Java?
63. What are the different ways you can declare a variable in Java using keywords?
64. What is the instanceof keyword used for in Java?
65. What is the purpose of package keyword in Java?
66. Explain how the default keyword is used in Java interfaces since Java 8.
67. What is the significance of the yield keyword introduced in Java 14?

Conceptual/Usage-Oriented Questions

68. When would you use the finally block in exception handling? What role does it play in conjunction with the try-catch block?

69. How does Java handle multiple inheritance of types (classes/interfaces) with the use of keywords like extends and implements?

70. What happens when you declare a variable as static final? What is its use case?

71. How does the super keyword help with method overriding in Java?

72. Can you use the private keyword for class members, and what happens if you try to access them outside of the class?

73.

JAVA BASIC PROGRAMMES

- What Are the Steps to write first program
- Java Program to Check Whether a Given Number is Even or Odd
- Java Program to Find the Sum of Even and Odd Numbers
- Java Program to Check Whether a Number is Positive or Negative
- Java Program to Find the Largest Number Among Three Numbers
- Java Program to Swap Two Numbers
- Java Program to Find the Number of Integers Divisible by 5
- Java Program to Check if Two Numbers are Equal
- Java Program to Find Sum of Digits of a Number
- Java Program to Find Sum of Digits of a Number using Recursion
- Java Program to Extract Digits from a Given Number
- Java Program to Increment by 1 to all the Digits of a Given Integer
- Java Program to Perform Arithmetic Operations
- Java Program to Print Binary Equivalent of an Integer using Recursion
- Java Program to Print Multiplication Table
- Java Program to Read a Grade and Display the Equivalent Description
- Java Program to Check Whether a Character is a Vowel, Consonant or Digit
- Java Program to Check Whether a Given Alphabets are Uppercase or Lowercase or Digits
- Java Program to Accept the Height of a Person & Categorize as Taller, Dwarf & Average