**Java Programming Fundamentals**

1. **Getting Started (Language Fundamentals):**
2. Why Java and its importance
3. Introduction of OOPs
4. Java features
5. Java Class Structure and its member
6. Main method in java.
7. Printing in Java
8. Java Coding Convention
9. Java Data Types
10. Typecasting
11. Operators in Java
12. Method declaration in Java
13. Method calling in Java
14. Method overloading in Java
15. Constructor
16. Arrays
17. Conditional and looping Statement in java
18. **Package Declaration:**
19. Introduction to all predefined packages
20. User Defined Packages
21. Access Specifiers
22. **Exception Handling**
23. Introduction
24. Pre-Defined Exceptions
25. Try-Catch-Finally
26. Throws, throw
27. **OOPs**
28. Inheritance
29. Method Overriding
30. Field Hiding
31. Use of this and super keyword
32. Constructor chaining using this() and super()
33. Abstract Classes, Final Classes
34. Interfaces
35. Reference assignment
36. Use of instanceof operator
37. Garbage Collections
38. **Inner Classes**
39. Introduction
40. Member inner class
41. Static inner class
42. Local inner class
43. Anonymous inner class
44. **Fundamental Classes**
45. Object
46. String, StringBuffer and StringBuilder
47. Character
48. Math
49. Byte, Short, Integer, Long, Float, Double, Character, Boolean classes.
50. **Collection Frame Work**
51. java.util package interfaces: Collection, List, Set, Map
52. Arrays and Collections class
53. Comparable and Comparator
54. Generics
55. **Multi-Threading**
56. Introduction
57. Thread Creations
58. Thread Life Cycle
59. Life Cycle Methods
60. Synchronization
61. **I/O Streams**
62. File Creation
63. Reading and Writing Data from File
64. Reading and Writing Data from console using Scanner class and BufferedReader class
65. Object Saving(Serialization)
66. **JDBC (JavaDataBaseConnectivity)**
67. Introduction of DBMS and SQL
68. Types of Drivers
69. Connection Modes
70. Statement and PreparedStatement
71. ResultSet
72. **GUI using SWING / AWT**
73. Components
74. Event-Delegation-Model
75. Listeners
76. Layouts
77. Individual components JLable, JButton, JCheckBox, JRadioButton,
78. JList, JMenu, JTextField, JText Area,Jtable etc.

PROJECT WORK

Interview Questions discussion with assignments and Mini Project Discussion Based on Real Time Problem

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