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## Core Java Basics

1. JDK Setup
2. First Program
3. Development structure
4. JDK 15 and Eclipse Setup
5. Programming elements
6. Printing in Command prompt
7. Local variables
8. Unary Operators
9. Command line arguments
10. if block
11. nested if blocks
12. if blocks with unary operators
13. else block
14. if-else blocks inside if block
15. if-else blocks inside else block
16. if-else blocks with unary operators
17. ternary operator
18. switch-cases
19. for-loop

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20. break and continue
21. nesting of loops
22. labeled loops
23. for-each loop
24. while loop
25. do-while
26. Methods
27. attributes
28. SIB
29. IFR and Multiple classes
30. Object and reference variable
31. this key word
32. constructors
33. constructor overloading and this()
34. IIB
35. objects count
36. Encapsulation
37. Inheritance
38. super() calling statement
39. packages

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40. access levels
41. abstract classes
42. interfaces
43. method overloading
44. method overriding
45. auto widening
46. explicit narrowing
47. auto upcasting
48. explicit down casting
49. achieving polymorphism
50. final key word
51. classpath
52. Javadoc, javap and jar commands
53. Scanner class
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## Core Java Advanced

1. Wrapper classes basics
2. auto boxing and auto unboxing
3. why do we require Exception Handling

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4. try-catch
5. try-catches
6. try-catch-finally
7. exceptional conditions of finally
8. return statement
9. Errors and Exceptions
10. Checked and Unchecked
11. throws
12. throw
13. throws in overriding
14. assertions
15. toString
16. equals
17. hashCode
18. Garbage Collection and clone
19. reflection api
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24. why do we required an inner classes
25. non static, staic and local inner classes
26. anaymous inner class
27. lambda expressions
28. basics
29. synchronization
30. thread life cycle
31. accessories
32. basics and important methods
33. StringBuffer
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39. basic operations
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42. queues
43. avoiding duplicates (set)

44. maps
45. iterators
46. sorting
47. TreeSet and TreeMap
48. sorting map based on values
49. modifying collections classes as synchronized
50. concurrent package
51. sort even and odd separately
52. basics
53. advanced
54. basics
55. readers and writers
56. streams
57. serialization
58. adv serialization and externalization
59. PrintStream
60. serialVersionUID
61. forEach() method in Iterable interface.
62. default and static methods in Interfaces.
63. Functional Interfaces and Lambda Expressions.



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## Core Java

- 64. double colon (::) Operator
- 65. forEach in detailed
- 66. Java Streams creation
- 67. Java Streams Usage
- 68. Java IO improvements.
- 69. Java Date and Time API Improvement
- 70. Collection API improvements
- 71. Concurrency API improvements