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Core Java Basics

1. JDK Setup
2. First Program
3. Developmnt structure
4. JDK 15 and Eclipse Setup
5. Programing 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
54. Eclipse

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
20. basics
21. advanced
22. annotations
23. static imports

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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
34. Formatters
35. Regular expressions
36. DateFormatter and NumberFormatters
37. arrays
38. introduction
39. basic operations
40. different collections
41. list
42. queues
43. avoiding duplicates (set)

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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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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

General Logical Coding

1. Display patterns set1
2. Display patterns set2
3. Display patterns set3
4. Display patterns set4
5. Display patterns set5
6. Number system set1
7. Number system set2
8. Arrays set1
9. Arrays set2
10. Arrays set3
11. Arrays set4
12. Strings set1
13. Strings set2
14. Strings set3

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15. Strings set4
16. Strings set5
17. Strings set6
18. Strings set7
19. Strings set8
20. Strings set9
21. Strings set10
22. Strings set11
23. Strings set12
24. Strings set13
25. Strings set14
26. Multiple Separators
27. play around with the file system
28. word count in the file

Data Structures

Data Structures set1

Data Structures set2

Data Structures set3

Data Structures set4

Data Structures set5

Data Structures set6



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Data Structures set7

Data Structures set8

Data Structures set9

Data Structures set10

Data Structures set11

Data Structures set12

Algorithms

1. recursive algo set1
2. recursive algo set2
3. recursive algo set3
4. recursive algo set4
5. sorting algo set1
6. sorting algo set2
7. search algo set1

JavaScript

1. basics

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1. why do we require
2. pre requisites
3. softwares required.

2. output

1. write
2. log
3. alert

3. input

1. prompt
2. confirm

4. events

1. onclick
2. onload
3. onchange
4. onblur

5. execution

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1. functions
2. var
3. let
6. default
 1. values
 2. typeof
 3. default with if
 4. double equals (==)
 5. triple equals (===)
7. basic form validations
 1. text, password and textarea
 2. radio
 3. checkbox
 4. select
 5. multi select

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8. getElementById

1. p, div and span
2. swap
3. hidden and show
4. change color

9. display validation errors

1. single field
2. multiple fields

10. objects

1. with fields
2. with functions
3. with nested

11. arrays

1. basics
2. sort
3. array with objects

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12. form data manipulation

1. select all
2. reverse select all
3. dynamic population
4. transfer options
5. string functions
6. trim
7. email validation
8. multi dimensional array
9. sorting records based on column
10. sorting options of drop down

Angular

1. Installations
2. Un Installations
3. Creating a project and understanding default code

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4. Creating a component
5. Creating a component with different options
6. Creating a component without ng command
7. typescript datatypes and fields declaration
8. typescript methods declaration
9. typescript methods body development
10. access specifiers and constructor
11. bindings
12. directives
13. template variable
14. template driven forms
15. reactive forms
16. http client
17. routing
18. modular development
19. typescript compiler
20. type assertion
21. arrow functions
22. directives
23. http with template variables
24. one-to-one mapping

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25. one-to-many create and read-all
26. one-to-many read, update and delete
27. managing checkbox
28. many-to-many CRUD

SQL

1. Oracle 11g Installation
2. SQL Developer installation
3. Oracle 11g un installation
4. DDL and DML
5. DQL
6. NOT NULL, UNIQUE AND PRIMARY
7. FOREIGN KEY
8. ONE-TO-ONE
9. ONE-TO-MANY
10. MANY-TO-MANY
11. DATE AND TIMESTAMP
12. DESIGNING EMPLOYEE DATABASE
13. 1NF, 2NF and 3NF



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14. Designing Car database

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