

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



- 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



- 40. access levels
- 41. abstrcat 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



- 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



- 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. DateFormaters and NumberFormatters
- 37. arrays
- 38. introduction
- 39. basic operations
- 40. different collections
- 41. list
- 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. for Each() method in Iterable interface.
- 62. default and static methods in Interfaces.
- 63. Functional Interfaces and Lambda Expressions.



- 64. double colon (::) Operator
- 65. for Each 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 set 2
- 14. Strings set3



- 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



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



- 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



- 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



- 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



- 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 dimentional array
 - 9. sorting records based on column
 - 10. sorting options of drop down

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
- 14. Designing Car database

JDBC

- 1. Setup
- 2. First Program
- 3. Various ways of insert
- 4. Fetching
- 5. try, catch and finally
- 6. External properties file
- 7. Util dev and Tx management



- 8. Prepared Statement
- 9. Callable Statement
- 10. Eclipse usage, Scrollable and Updatable
- 11. batch updates
- 12. BLOB datatype
- 13. Metadatas
- 14. Reading DB keys
- 15. savepoint
- 16. rowid
- 17. POI setup
- 18. Storing masterdata in db
- 19. CRUD operations

Servlets

- 1. Setup
- 2. First Servlet
- 3. Input to Servlet
- 4. Client side dev
- 5. Backend Dev
- 6. war dev
- 7. With eclipse



- 8. Again backend dev
- 9. Welcome file list
- 10. getParameter()
- 11. Form Data
- 12. constants
- 13. life cycle
- 14. architecture
- 15. doGet and doPost
- 16. init methods
- 17. RequestDispatcher
- 18. sendRedirect
- 19. why session tracking
- 20. hidden form fields
- 21. url rewritting
- 22. cookies
- 23. HttpSession
- 24. Filters basics
- 25. dispatcher types
- 26. diff containers
- 27. diff listeners

<u>JSP</u>

- 1.JSP Scripting Elements
- 2. Using Java code inside JSP
- 3.JSP implicit objects



- 4. page directive
- 5. include directive and JSP actions
- 6.JSP useBean
- 7.JSP EL

Rest Webservices

- Softwares Setup (JDK15, Winrar, editplus and Eclipse)
- 2. SpringBoot First Application
- 3. Rest Webservices return types
- 4. Rest Webservices Input (PathVariable)
- 5. Rest Webservices Input (RequestBody)
- 6. Rest Webservices Input (RequestParam)
- 7. GET mapping in detail
- 8. Image file upload
- 9. Diff file uploads
- 10. File upload along with JSON object



- 11. Multiple Files and Multiple JSON objects
- 12. Excel File upload and processing with POI
- 13. text file upload and inserting into db
- 14. Excel file upload and inserting into db
- 15. ResponseEntity body and status code
- 16. ResponseEntity body, headers and status code
- 17. ResponseEntity File Download
- 18. Mail Sending setup and sending text mail
- 19. mail with HTML body
- 20. mail with attachment
- 21. mail with programmatic configuration(sending from a specific mail account)
- 22. email id verification



