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. forEach() method in Iterable interface.

62. default and static methods in Interfaces.

63. Functional Interfaces and Lambda Expressions.

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

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

https://lara.co.in

    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

JSP

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

1. 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

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Spring Boot

1. Softwares Setup (JDK15, Winrar, editplus and Eclipse)

2. SpringBoot first app

3. SpringBoot 2nd app

4. Spring Boot Auto Configuration

5. Spring Boot Dev Tools

6. Spring Boot Command Line Arguments

7. Spring Boot Exception handling

8. Spring Boot JAR Development

9. Spring Boot WAR Development

Spring Microservices

8. Micro Services Architecture

9. Micro Services Setup

10. RestTemplate

11. Feign client with Example

12. Feign client with Zipkin Server

13. Feign and Ribbon client with Example

14. Feign, Ribbon and Eureka

15. Feign, Ribbon, Zuul and Eureka

16. Feign, Ribbon, Zuul and Slueth

17. RabbitMQ and Zipkin

18. Spring Cloud Config server

19. Spring Cloud Config client

20. Spring Cloud Actuator

21. Spring Cloud Bus

22. Spring Hystrix

Spring Data JPA

1. Setup

2. Save operation

3. Save All operation

4. PUT and PATCH operations

5. READ and DELETE operations

6. All Methods Of CRUD Repository

7. Generators

8. For Unique Columns

9. For NON Unique Columns

10. Where clause with Boolean LIKE

11. Where clause with Boolean AND

12. Where clause with Boolean OR

13.   Table, Column, Not-NULL and Unique

14.   Where clause with Greater Than (>) and Less Than (<)

15.   Reading Single Column

16.   Reading Multiple Columns

17.   DTO Development

18.   DTO Single Join

19.   DTO Multiple Join

20.   one-to-one uni directional

21.   one-to-one bi directional

22.   one-to-one sharing key (MapsId)

23.   one-to-many uni directional

24.   one-to-many bi directional

25.   many-to-many

Spring Security

1. Security Setup

2. Inmemory Credentials and Password encoding

3. Reading Credentials from DB

4. Authorization Bsics

5. Authorization Patterns

6. Tesing Authentication through ARC

7. Setting up Angular

8. Tesing Authorization through Angular

9. Interception Filters

10. Guard Services

11. JWT implementation in Spring Boot app and calling from Angular app

Angular

1. Installations

2. Un Installations

3. Creating a project and understanding default code

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.   tyscript compiler

20.   type assertion

21.   arrow functions

22.   directives

23.   http with template variables

24.   one-to-one mapping

25.   one-to-many create and read-all

26.   one-to-many read, update and delete

27.   managing checkbox

28.   many-to-many CRUD

Java FSD Practical Dev

1. Spring boot first app

2. CommandLineRunner

3. Data JPA setup

4. Data JPA Basics

5. Custom Repository methods

6. Angular Client

7. Angular Client with template variable

8. Angular Client with template driven form-
   CREATE

9. Angular Client with template driven form-
   CREATE with Validations

10. Angular Client with template driven form-
    READ

11. Angular Client with template driven form-
    UPDATE and DELETE

12. Angular Client with Reactive Forms CREATE

13. Angular Client with Reactive Forms CREATE-
    Validations

14. Angular Client with Reactive Forms READ, UPDATE and DELETE

15. Lombok

16. MySQL Usage

17. Oracle Usage

18. Example1

19. Example2

20. Example3

21. Example3 continue ...

22. Data Poulation

23. Adv methods... set1

24. Adv methods ... set2

25. Adv methods ... set3

26. Adv methods set4

27. one-to-one setup

28. one-to-one unidirectional

29. one-to-one bi-directional

30. one-to-one mapsId

31. one-to-one client dev CREATE

32. one-to-one client dev RUD

33. one-to-many uni

34. one-to-many bi

35. one-to-many imp points

36. one-to-many clientside dev1

37. one-to-many clientside dev2

38. one-to-many clientside dev3

39. many-to-many server side

40. many-to-many services and controllers

41. many-to-many client side create

42. many-to-many client side read, update and delete

43. BootStrap Setup and NavBar dev

44. DashBoard dev

45. DashBoard With Spring Security

46. Pagination in Angular

47. Security Headers

48. JWT Implementation

49.   AWS account creation, EC2 creation and mobaXterm installation

50.   JDK and Tomcat installations

51.   jar and war deployment

52.   jar and war deployment with angular code

53.   MySql Installation and Usage in EC2 instance