

JAVA 8 New Features Course Syllabus

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No of Videos: 93 No of Hrs:20+

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Topic: Introduction

1.Introduction

Topic: Lambda Expressions & Functional Interfaces

- 2.Lambda expressions: Introduction
- 3. How to Write Lambda expressions- Part-1
- 4. How to Write Lambda expressions -Part-2
- 5. Functional Interface
- 6. @FunctionalInterface Annotation
- 7. @FunctionalInterface Annotation wrt Inheritance
- 8. Invoking Lambda Expression By using Functional Interface example-1
- 9. Invoking Lambda Expression By using Functional Interface examples-2,3,4
- 10. Invoking Lambda Expression By using Functional Interface example-5
- 11. Functional Interface, Lambda Expression Summary

Topic: Lambda Expressions with Collections

- 12. Collections Overview: List and Set
- 13. Collections Overview: Map
- 14. Comparator interface & compare method

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- 15. Sorting Elements of List without Lambda Expression
- 16. Sorting Elements of ArrayList with Lambda Expression
- 17. Sorting Elements of TreeSet with Lambda Expression
- 18. Sorting Elements of TreeMap with Lambda Expression
- 19. Sorting of Our own class objects with Lambda Expression

Topic: Anonymous Inner Classes & Lambda Expressions

- 20. Anonymous Inner class vs Lambda Expression Par-1
- 21. Anonymous Inner class vs Lambda Expression Par-2
- 22. Anonymous Inner class vs Lambda Expression Par-3
- 23. Differences between Anonymous Inner class & Lambda expressions

Topic: Default Methods and Static Methods in Interfaces

- 24. Default Methods Inside Interfaces
- 25. Differences between Interface with Default Methods and Abstract classes 17
- 26. Static Methods inside Interfaces 18

Topic: Predefined Functional Interfaces - Predicate

- 27. Predefined Functional Interfaces-Predicate Part-1
- 28. Predefined Functional Interfaces-Predicate Part-2
- 29. Predefined Functional Interfaces-Predicate Part-3
- 30. Predefined Functional Interfaces-Predicate Joining

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- 31. Program to display names starts with 'K' by using Predicate
- 32. Predicate Example to Remove null values and Empty String from the given List?
- 33. Program for User Authentication by using Predicate
- 34. Program to Check Whether Software Engineer is allowed into Pub or not?
- 35. Employee Management Application by using Predicate Part-1
- 36. Employee Management Application by using Predicate Part-2
- 37. Employee Management Application by using Predicate Part-3
- 38. Predicate interface is Equal() method

Topic: Predefined Functional Interfaces -Function

- 39. Predefined Functional Interfaces-Function
- 40. Program to remove spaces present in the given String by using Function
- 41. Program to find Student Grade by using Function
- 42. Progarm to find Total Monthly Salary of All Employees by using Function
- 43. Progarm to perform Salary Increment for Employees by using Predicate & Function

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- 44. Function Chaining
- 45. Demo program to Demonstrate the difference between andThen() and compose()
- 46. Demo Program for User Authentication by using Function Chaining
- 47. Function interface Static Method: identity()

Topic: Predefined Functional Interfaces -Consumer

- 48. Consumer Introduction
- 49. Program to display Movie Information by using Consumer
- 50. Program to display Student Information by using Predicate, Function and Consumer
- 51. Consumer Chaining

Topic: Predefined Functional Interfaces - Supplier

- 52. Supplier Introduction
- 53. Program to get System Date by using Supplier
- 54. Program to get Random Name by using Supplier
- 55. Program to get Random OTP by using Supplier
- 56. Program to get Random Password by using Supplier
- 57. Comparison Table of Predicate, Function, Consumer and Supplier

Topic: Two-Argument (Bi) Functional Interfaces- BiPredicate, BiFunction & BiConsumer

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- 58. Introduction
- 69. BiPredicate
- 60. BiFunction
- 61. Creation of Student object by taking name and rollno as input with BiFunction
- 62. Calculate Monthly Salary With Employee and TimeSheet By using BiFunction
- 63. BiConsumer
- 64. Demo Program to Increment Employee Salary by using BiFunction & BiConsumer
- 65. Comparison Table between One-Argument & Two-Argument Functional Interfaces

Topic: Primitive Type Functional Interfaces, Unary Operator and Binary Operator

- 66. Autoboxing, Autounboxing and Type Parameter
- 67. Need of Primitve Type Functional Interfaces
- 68. Primitve Type Functional Interfaces for Predicate
- 69. 3 Demo Programs about Primitve Type Functional Interfaces for Function
- 70. All 15 Primitve Type Functional Interfaces for Function
- 71. Primitive Versions for Consumer
- 72. Primitive Versions for Supplier

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- 73. UnaryOperator and its Primitive Versions
- 74. BinaryOperator
- 75. Primitive Versions for BinaryOperator

Topic: Method and Constructor Reference By using :: Operator

- 76. Method Reference By Double Colon(::) Operator Part-1
- 77. Method Reference By Double Colon(::) Operator Part-2
- 78. Constructor Reference By Double Colon(::) Operator

Topic: Streams

- 79. Introduction to Streams
- 80. Methods of Streams:filter() and map()
- 81. Difference between filter() and map()
- 82. Various methods of Stream Part-1
- 83. Various methods of Stream Part-2
- 84. Various methods of Stream Part-3
- 85. Various methods of Stream Part-4
- 86. Summary of Streams

Topic: Date and Time API

- 87. Date and Time API Introduction Part-1
- 88. Date and Time API Introduction Part-2

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- 89. Date and Time API Introduction Part-3
- 90. Date and Time API Introduction Period & Year
- 91. Date and Time API Introduction Zoneld, ZonedDateTime

Topic: Java 8 New Features Summary

- 92.Summary Part 1
- 93.Summary Part 2