Certificate No: FHH985483

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Certificate of Learning

ABHISHEK YASHWANT THASAL

Student ID: 85483

has completed the following course

Java Master Course(Basic To Expert Level) 60+ Hours

62hr,48min	249	Beginner
Total Duration	No. of Lessons	Level of the Course

Issued on **14th April 2021**

Certificate Link:**learnmall.in/cert/FHH985483**

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Learning Summary

ABHISHEK YASHWANT THASAL **(Student ID: 85483)**

has completected the following course

Certificate No: FHH985483

" Java Master Course(Basic To Expert Level) 60+ Hours "

- Course Segementation: **Development > Programming Languages > Java**
- Duration: **62 hours 48 minutes**
- Level: **Beginner**
- No. of Lessons: **249**
- Issue Date: **14th April 2021**

Course Syllabus

Java Introduction

- About this Tutorial
- What is Java?
- Downloading, Installing and Configuring Java
- Downloading, Installing and Launching Eclipse IDE
- Creating a Java Project
- Understanding Java Programs
- Compiler Errors
- Print Statements
- Shortcut for writing System.out.println() statement
- Comments
- Variables

Data Types

- Data Types
- int Data Type
- double Data Type
- char Data Type
- boolean Data Type
- String non-primitive Data Type
- byte Data Type
- short Data Type
- long Data Type
- float Data Type
- Passing decimal values to the int data type declared variables
- Passing character values to the int data type declared variables
- Assigning byte, short, long, float, boolean and String values to the int declare
- Assigning out of range values integer value to byte, short, int and long type va

Literals

- Different Types of Literals
- Escape Characters
- Using _ in Numeric Literals
- Difference between Integer Literals and Long Literals
- Assigning different Literals to byte data type variable
- Assigning different Literals to short data type variable
- Assigning different Literals to long data type variable
- Assigning different Literals to float data type variable
- Assigning different Literals to double data type variable
- Assigning different Literals to boolean data type variable
- Assigning different Literals to String data type variable
- Assigning different Literals to char data type variable
- Expressing Floating Point Literals in scientific way
- Type Casting
- Types of Type Casting

Operators

- Types of Operators
- Addition Operator
- Subtraction Operator
- Multiplication Operator
- Division Operator
- Modulus Operator
- Increment Operator
- Decrement Operator
- Relational Operators
- Logical Operators
- Simple Assignment Operator
- Compound Assignment Operators
- Conditional Operator
- Operator Precedence

Flow Control Statements

- Flow Control Statements

This Learning Summary is the follow on transcript of Certificate of Learning (COL) and should be presented along with COL. Know more about Certificate of Learning, visit https://www.learnmall.in/COL

- if Selection Statements
- if .. else Selection Statements
- if .. else if .. else Selection Statements
- switch Selection Statements
- Iterative Statements
- while Iterative Statement
- do-while Iterative Statement
- for Iterative Statement
- Transfer Statements
- break Transfer Statement
- continue Transfer Statement

Methods, Classes and Objects

- Methods, Method Calling and Naming
- Method Parameterization
- Method Returning Values
- Classes enclose Variables and Methods
- What are Classes and Objects

Arrays

- Arrays and their Types
- Single Dimensional Arrays
- Shortcut Representation of Single Dimensional Arrays
- Length of a single dimensional Array
- Using for loop with single dimensional arrays
- Using for-each loop with single dimensional arrays
- ArrayIndexOutOfBoundsException
- Two Dimensional Arrays
- Shortcut Representation of Two Dimensional Arrays
- Length of a Two Dimensional Arrays
- Using for loop with a Two Dimensional Array
- Three Dimensional Array
- Shortcut Representation of Three Dimensional Arrays
- Length of Three Dimensional Arrays
- Using for loop with a Three Dimensional Array
- Using for-each loop with a Two Dimensional Array
- Using for-each loop with a Three Dimensional Array
- Arrays and Data Types
- Object Class Arrays
- Disadvantages of Arrays

String Class and its methods

- String Class
- String objects are immutable
- equals() String method
- Difference between == and equals() method
- equalsIgnoreCase() String method
- length() String method
- Difference between length and length()
- trim() String method
- substring() String method
- indexOf() String method
- lastIndexOf() String method
- split() String Class method
- concat() String method
- Using + Opeator for Concatenation
- isEmpty() String Method
- startsWith() String Method
- endsWith() String Method
- toCharArray() String Method
- toUpperCase() String Method
- toLowerCase() String Method
- toString() String Class Method
- valueOf() String Class Method
- chatAt() String Class Method
- replace() String Class Method

StringBuffer Class and its methods

- StringBuffer Class
- append() StringBuffer Class Method
- charAt() StringBuffer Class Method
- delete() StringBuffer Class Method
- deleteCharAt() StringBuffer Class Method
- insert() StringBuffer Class Method
- length() StringBuffer Class Method
- indexOf() StringBuffer Class Method
- lastIndexOf() StringBuffer Class Method
- replace() StringBuffer Class Method Method
- reverse() StringBuffer Class Method
- setCharAt() StringBuffer Class Method
- setLength() StringBuffer Class Method
- substring() StringBuffer Class Method
- toString() StringBuffer Class Method

Wrapper Classes

- Wrapper Classes
- Working with different Wrapper Classes
- Wrapping
- Unwrapping
- Boxing
- Unboxing
- Autoboxing
- Auto-unboxing

Math Class and its methods

- Math Class
- max() Math Class Method
- min() Math Class Method
- random() Math Class Method

Packages

- Packages
- Package handling in Eclipse IDE
- Types of Packages
- Parent and Child Packages
- Packages and their Workspace Representation

- Packages Naming Conventions
- Importing User-defined Packages
- Importing In-built Packages
- java.lang default package

Inheritance and its types

- Inheritance
- Types of Inheritance
- Single Inheritance Demonstration
- Multiple Inheritance Demonstration
- Multilevel Inheritance Demonstration
- Hierarchical Inheritance Demonstration
- Hybrid Inheritance Demonstration

Constructors

- Constructors
- Purpose of Constructors
- Empty Hidden Constructor
- this keyword and Constructors
- Not initializing variables using Constructors results in default values
- Types of Constructors
- Constructor Overloading
- this() and Constructor Overloading
- Constructor Overriding is not possible
- Constructor Chaining
- super() Constructor Calling Statement

Method Overloading and Overriding

- Method Overloading
- Method Overriding

this and super keywords

- this keyword for differentiating Instance Variables
- this keyword for invoking current Class Methods
- this keyword for returning the Current Class Instance
- this keyword for passing the current class instance as method argument
- super keyword

Modifiers

- Modifiers
- public Access Modifier
- private Access Modifier
- default Access Modifier
- protected Access Modifier
- static Non-Access Modifier
- final Non-Access Modifier
- abstract Non-Access Modifier

Exception Handling

- Exception
- Exception Handling using try catch blocks
- try catch blocks and variables scope
- ArithmeticException
- ArrayIndexOutOfBoundsException
- Exception Hierarchy
- Multiple Catch Blocks
- Printing Exception details in different ways
- throw
- Checked and Unchecked Exceptions
- Handling and Ignoring Checked Exceptions
- throws
- throw versus throws
- finally
- final versus finally
- Statements execution in try block

Interfaces

- Interfaces
- Interfaces and Naming Convention
- Interfaces and Constructors
- Interfaces and Variables
- Interfaces and Methods
- Implementing Interfaces
- Interfaces and Object Creation
- Implementing Multiple Interfaces
- Interface extending Interface
- Extending Classes and Implementing Interfaces together

Abstract Classes

- abstract Classes
- abstract Classes and abstract methods
- abstract Classes and their child Classes
- abstract Classes and their method access modifiers
- abstract Classes and object creation
- abstract Classes and fields
- abstract Classes and Constructors
- Interfaces and method body

Collections Framework

- Collections Framework
- Collection Interface
- List Interface
- ArrayList in Detail
- LinkedList
- Vector
- Stack
- Set Interface
- HashSet
- LinkedHashSet
- SortedSet
- NavigableSet
- TreeSet
- Map interface

- HashMap
- LinkedHashMap
- Hashtable
- Properties Class
- Converting Arrays to List

▶ Other Advanced Topics

- Reflection API
- Generics
- File Handling
- Getter and Setter Methods
- OOPS Concepts
- Database Concepts for JDBC
- SQL for JDBC
- JDBC
- Enum
- Varargs
- Purpose of few Inbuilt Annotations
- Scanner