



100% PLACEMENT ASSISTANCE



Java Full Stack

★ Why Choose Cypher Analytica ?

- Industry-Leading Curriculum.
- Flexible Learning Options.
- Affordable with Flexible Payment Plans.
- Live Projects & Hands-on Experience.
- Recorded Videos & Study Material.
- Internship Opportunities.
- Industry-Relevant Certifications.
- Resume Building & Interview preparation.
- 100% Placement Support.

GETTING STARTED

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- INTRODUCTION
- COURSE OVERVIEW
- SETUP
- OUR FIRST JAVA PROGRAM
- VARIABLE AND DATATYPES
- PRIMITIVE DATA TYPES
- BIGDECIMAL CLASS
- STRING BASICS
- TYPE CASTING
- EXERCISE - SOLVE AN EQUATION

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DECISION MAKING UNDER JAVA

- OPERATORS
- ARITHMETIC OPERATORS
- MAKING DECISION WITH OPERATORS
- TERNARY OPEARTOR
- ASSIGNMENT OPERATORS
- MAKING DECISION WITH IF ELSE
- EXERCISE

3

FLOW CONTROL

- SWITCH CASE
- FOR LOOP
- WHILE LOOP
- DO-WHILE LOOP
- LOOPS REVISITED
- BREAK AND CONTINUE
- NESTED LOOPS
- EXERCISE

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METHODS

- METHODS
- METHODS PARAMETERS AND RETURN TYPE
- METHOD OVERLOADING
- EXERCISE

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OOPS CONCEPTS

- CLASSES-INTRODUCTION
- CLASSES - GETTERS AND SETTERS
- CLASSES - ADDING FUNCTIONALITY INTO CLASS
- CONSTUCTORS
- DEFAULT CONSTRUCTORS
- INHERITANCE

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MORE CORE CONCEPTS

- INTERFACES
- ABSTRACT CLASS
- INNER CLASSES
- TYPES OF NESTED CLASS
- LOCAL INNER CLASS

- TYPES OF INHERITANCE
- COMPOSITION
- ADDING FUNCTIONALITY
- ENCAPSULATION
- POLYMORPHISM
- EXERCISE

ARRAY

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- ARRAY OVERVIEW
- FOREACH LOOP METHODS - CALL BY VALUE AND REFERENCE
- ISSUES WITH ARRAY
- EXERCISE

- ANONYMOUS OBJECT
- ANONYMOUS INNER CLASS
- STATIC ELEMENTS
- STATIC INNER CLASS
- FINAL KEYWORD
- PACKAGES
- SCOPE
- ACCESS MODIFIER
- EXCEPTION HANDLING
- EXCEPTION HANDLING, MULTIPLE CATCH BLOCKS
- FINALLY BLOCK
- USER DEFINED EXCEPTION
- CHECKED AND UNCHECKED EXCEPTIONS
- ENUM
- STRINGS
- STRING FORMATING
- EXERCISE

ADVANCE CONCEPTS

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- COLLECTIONS FRAMEWORK
- ARRAY LIST
- AUTOBOXING AND UNBOXING
- GENERICS
- TYPE PARAMETERS
- SETS
- MAPS
- TREEMAPS
- LAMBDA EXPRESSION
- PREDICATES

FILE HANDLING UNDER JAVA

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- DATA STREAMS
- WRITING ONTO FILES
- READING FILES WITH BUFFEREDREADER
- FILE DELETION
- SERIALIZATION OF OBJECTS

JDBC

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- DRIVER OVERVIEW
- CONNECTION, DRIVERMANAGER, DRIVER CLASSES
- GET (CONNECTION) METHOD, STATEMENT, RESULTSET
- DIFFERENT TYPE OF EXECUTE METHOD
- FLAVOURS OF RESULTSET

JSP AND SERVLETS

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- INTRODUCTION JSP ELEMENTS
- INCLUDE FILE(S) IN JSP PAGE
- IMPORT CLASS INTO JSP PAGE
- FORWARD AND REDIRECT UNDER

GIT : GIT BASICS

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- GIT OVERVIEW
- SETTING UP GIT
- CLONE AND IMPORT GIT PROJECT INTO ECLIPSE
- CLONE GIT PROJECT DIRECTLY FROM ECLIPSE

HTML 5

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- HTML TAGS
- HTML AUDIO/VIDEO
- HTML PROGRESS
- HTML METER
- HTML DATA-TAG
- HTML DETAILS TAG
- HTML HEADER FOOTER TAGS
- HTML FIGURE, FIGCAPTION TAG
- HTML ARTICLE TAG
- HTML ASIDE TAG
- HTML DILOG TAG
- HTML DETAILS TAG
- HTML SUMMARY TAG
- HTML SECTION TAG
- HTML TIME TAG
- HTML MAIN TAG
- HTML BR TAG
- HTML CANVAS
- HTML SVG
- HTML DRAG AND DROP
- HTML GOOGLE MAPS
- HTML SEMANTIC AND NON SEMANTIC TAGS
- HTML MIGRATION
- HTML COLOR NAMES

- JSP MVC OVERVIEW FORMS BEANS
- AND ITS SCOPES SESSION
- MANAGEMENT JSTL CORE TAGS JSTL
- FUNCTIONS BUILDING CUSTOM TAGS
- INTEGRATE WEB TEMPLATE
- SERVLETS INITIALIZATION
- INTERACTING WITH DATABASE
- LISTING DATA ON WEBPAGE
- ADD RECORD(S) INTO DATABASE
- UPDATE RECORD(S) INTO DATABASE
- DELETE RECORD(S) INTO DATABASE
- ADDING RECORD(S) INTO DATABASE
- JSTL SUPPORT IMAGE/FILE UPLOAD
- CAPSTONE PROJECT-1

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CSS 3

- INTRODUCTION TO CSS
- WHAT IS CSS
- CSS SYNTAX
- CSS SELECTORS
- HOW TO ADD CSS
- TYPES OF CSS
- CSS COMMENTS
- CSS BACKGROUND
- CSS BORDER AND DISPLAY
- CSS FLOAT
- CSS LINE HEIGHT
- CSS MARGINE
- CSS OPACITY
- CSS OVERFLOW
- CSS PADDING

BOOTSTRAP

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- INTRO TO BOOTSTRAP
- GETTING STARTED
- CDN LINK
- BOOTSTRAP CLASSES
- HOW TO USE CLASSES
- NAVIGATION BAR
- CARDS
- FOOTERS
- MARGIN-PADDING
- DISPLAY PROPERTIES
- BUTTONS
- FORMS
- LISTS
- AND MUCH MORE...
- TODO-LIST(PROJECT)
- WEATHER APP(PROJECT)

- CSS POSITION
- CSS VERTICAL ALIGN
- CSS WHITE SPACE
- CSS WIDTH
- CSS WORD WRAP
- CSS OUTLINE
- CSS COUNTER
- CSS AMINATIONS
- CSS GRADIENT
- CSS TRANSITION
- CSS TRASNFORM
- CSS FLEXBOX
- CSS MEDIA QUERY
- CSS 2D TRANSITION
- CSS 3D TRANSITION
- CSS TIME

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JQUERY

- About jQuery
- Using jQuery Core
- Events
- Effects
- Ajax
- Plugins
- Performance
- Code Organization
- jQuery UI
- jQuery Mobil

JAVA SCRIPT

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- WHAT IS JAVASCRIPT
- ECMAScript VS JAVASCRIPT
- VARIABLES
- DATATYPES
- WRAPPER CLASSES
- OPERATORS
- OPERATOR PRECEDENCE
- TYPE CONVERSION
- CONDITIONAL STATEMENTS
- EMAIL VALIDATION
- SWITCH CASE
- FUNCTIONS
- ARRAYS
- LOOPS
- REST AND SPREAD OPERATORS
- STRING
- OBJECTS

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HIBERNATE

- HIBERNATE INTRODUCTION
- HIBERNATE FRAMEWORK
- HIBERNATE QUERY LANGUAGE BASICS
- JSP AND SERVLETS: INTEGRATION OF HIBERNATE
- JSP AND SERVLETS : BUILDING THE APPLICATION
- CAPSTONE PROJECT -2

- GETTING STARTED
- INVERSION OF CONTROL, DEPENDENCY INJECTION
- AUTOWIRE
- SPRING BEAN
- IDE SETUP STEPS
- SPRING MVC
- SPRING FORM ELEMENTS
- STYLING AND EXTERNAL RESOURCES
- SPRING FRAMEWORK: FORM VALIDATIONS
- SPRING FRAMEWORK: DATABASE CONNECTIVITY USING JDBC
- SPRING FRAMEWORK: EXCEPTION HANDLING
- UNDER SPRING MVC RESTFUL API (JAX-RS) : WEB
- SERVICES RESTFUL API(JAX-RS) : SETTING UP
- RESTFUL API(JAX-RS): DATABASE CONNECTIVITY
- RESTFUL API(JAX-RS) : UNDERSTANDING JAX-RS
- RESTFUL API(JAX-RS) : UNDER THE HOOD
- RESTFULL API(BUILDING CIENT) CAPSTONE
- PROJECT -3

- EXECUTION CONTEXT
- HOISTING
- CALL STACK
- SCOPE
- LIFE CYCLE OF VARIABLE
- STRICT MODE
- JS RUNTIME ENVIRONMENT
- ARROW FUNCTIONS
- IIFE
- PURE AND IMPURE FUNCTION
- CALLBACK FUNCTIONS
- HIGHERORDER FUNCTION
- THIS
- IMPLICIT BINDING
- EPPLICIT BINDING
- OBJECT LITERALS
- CONSTUUCTOR FUNCTION
- NEW KEYWORD
- PROTOTYPE
- PROTOTYPAL INHERITANCE
- CALL/APPLY/BIND
- DESTRUCTURING
- OOPS
- BUILTIN CLASSES IN JS
- JSON
- SHALLOW COPY AND DEEP COPY
- CLASSES IN JS
- HOISTING AND EXECUTIN OF STRICT MODE
- APIS
- DOM
- EVENTS
- QUIZ GAME(PROJECT)
- ASYNCHRONOUS JS
- ERROR HANDLING
- MODULES IN JS