CERTIFICATE COURSE IN JAVA



Certificate Course in Java

COURSE CODE : CC-08

COURSE CONTENT & SYLLABUS

H.O.: 3-KHA-4, Sector 3, Vigyan Nagar, Kota-324005, (Rajasthan) India Tel.: 0744-2412009 Fax: 0744-2411150 Mob. +91 94629 67201

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Certificate Course in Java Certificate Course in Java	
<u>COUR</u> Course code - CC-08	ELIGIBILITY : 12 TH CLASS & ABOVE
	DURATION : 3 MONTH
MODULE - 1 JAVA	MODULE SUBJECT SUBJECT CODE – NJL
FUNDAMENTAL OF OBJECT ORIENT JAVA EVOLUTION OVERVIEW OF JAVA LANGUAGE	ED PROGRAMMING JAVA
CONSTANTS, VARIABLE AND DATA OPERATORS & EXPRESSION DECISION MAKING N LOOPING CLASSES, OBJECT & METHODS ARRAYS, STRINGS & VECTORS INTERFACES MULTIPLE INHERITAN PACKAGES MANAGING ERRORS & EXCEPTION BASIC I/O AND SERIALIZATION APPLETS	



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- D-5 DECLARATION OF VARIABLES
- D-6 INTRODUCTION OF ASSIGNMENT & READ STATEMENT
- D-7 INTRODUCTION OF TYPE CASTING N AUTOMATIC CONVERSION
- D-8 INTRODUCTION OF GETTING VALUES OF VARIABLES

E. OPERATORS & EXPRESSION

- E-1 INTRODUCTION OF OPERATORS
- E-2 TYPES OF OPERATORS
- E-3 EXAMPLES OF OPERATORS
- E-4 INTRODUCTION OF FIELDS DECLARATION & METHOD DECLARATION
- E-5 INTRODUCTION OF DECISION MAKING WITH IF STATEMENTS
- E-6 TYPES OF IF STATEMENT & ITS PROGRAM
- E-7 INTRODUCTION OF SWITCH STATEMENT
- E-8 PROGRAM RELATED TO SWITCH STATEMENT

F. DECISION MAKING N LOOPING

- F-1 INTRODUCTION OF LOOPING
- F-2 TYPES OF LOOPING
- F-3 PROGRAM RELATED TO LOOP STATEMENT

G. CLASSES, OBJECT & METHODS

- G-1 INTRODUCTION OF CLASSES
- G-2 DEFINING A CLASSES
- G-3 FIELDS & METHOD DECLARATION
- G-4 CREATING OBJECTS
- G-5 ACCESSING CLASS MEMBERS
- G-6 PROGRAM RELATED CLASSES & OBJECTS
- G-8 INTRODUCTION OF METHODS OVERLOADING
- G-9 INTRODUCTION OF STATIC MEMBERS
- G-10 INTRODUCTION OF NESTING METHODS
- **G-11** INTRODUCTION OF INHERITANCE:- EXTENDING A CLASS
- G-12 INTRODUCTION OF DEFINING A SUB CLASS, CONSTRUCTOR
- **G-13** INTRODUCTION OF MULTILEVEL INHERITANCE, HIERARCHICAL
- G-14 INTRODUCTION OF OVERRIDING METHODS & PROGRAMS
- G-15 INTRODUCTION OF FINAL VARIABLE, METHODS & CLASSES
- G-16 INTRODUCTION OF VISIBILITY CONTROL

H. ARRAYS, STRINGS & VECTORS

- H-1 INTRODUCTION OF ARRAY
- H-2 TYPES OF ARRAY
- H-3 CREATION N INITIALIZATION OF ARRAYS
- H-4 INTRODUCTION OF 2-D ARRAY
- H-5 INTRODUCTION OF STRINGS, STRING ARRAY & METHODS
- H-6 INTRODUCTION OF VECTORS
- H-7 INTRODUCTION OF ENUMERATED TYPES

I. INTERFACES MULTIPLE INHERITANCE

I-1 INTRODUCTION OF INTERFACES

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- I-2 DEFINING OF INTERFACES
- I-3 EXTENDING INTERFACES
- I-4 IMPLEMENTING INTERFACES
- I-5 ACCESSING INTERFACE VARIABLES
- I-6 PROGRAM RELATED TO INTERFACES

J. PACKAGES

- J-1 INTRODUCTION OF PACKAGES
- J-2 INTRODUCTION OF JAVA API PACKAGES
- J-3 INTRODUCTION OF NAMING CONVENTIONS
- J-4 CREATING PACKAGES
- J-5 ACCESSING A PACKAGES
- J-6 USING A PACKAGE
- J-7 ADDING A CLASS TO A PACKAGE
- J-8 PROGRAM RELATED TO PACKAGE

K. MANAGING ERRORS & EXCEPTION

- K-1 INTRODUCTION OF ERRORS
- K-2 TYPES OF ERROR
- K-3 COMPILE TIME ERROR
- K-4 RUN TIME ERROR
- K-5 EXCEPTIONS
- K-6 PROGRAM RELATED EXCEPTIONS
- K-7 MULTIPLE CATCH STATEMENTS
- K-8 THROWING OUR OWN EXCEPTIONS
- K-9 USING FINALLY STATEMENT
- K-10 USING EXCEPTIONS FOR DEBUGGING

L. BASIC I/O AND SERIALIZATION

- L-1 INTRODUCTION OF I/O STREAMS
- L-2 INTRODUCTION OF BYTE STREAMS
- L-3 INTRODUCTION & USING OF CHARACTER STREAMS
- L-4 INTRODUCTION OF LINE ORIENTED I/O
- L-5 INTRODUCTION OF BUFFERED STREAMS
- L-6 INTRODUCTION OF FLUSHING BUFFERED STREAMS
- L-7 INTRODUCTION OF STANDARD STREAMS
- L-8 INTRODUCTION OF DATA STREAMS
- L-9 INTRODUCTION OF OBJECT STREAMS
- L-10 INTRODUCTION OF FILE I/O, FILE OBJECT, MANIPULATING FILES

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- L-11 WORKING WITH DIRECTORIES
- L-12 INTRODUCTION OF STATIC METHODS, RANDOM ACCESS FILES

M. APPLETS

- M-1 INTRODUCTION OF APPLETS
- M-2 LIFECYCLE OF APPLETS
- M-3 LOADING APPLETS IN A WEB PAGE
- M-4 GETTING STARTED APPLETS
- M-5 APPLICATION AND APPLETS
- M-6 IMPORTING CLASS AND PACKAGES FOR APPLETS
- M-7 RELOADING THE APPLETS

CERTIFICATE COURSE IN JAVA M-8 INTRODUCTION OF INT, START, STOP, DESTROY METHOD M-9 USING THE PAINT METHOD M-10 WORKING WITH GRAPHICS M-11 WORKING WITH DRAWING LINES M-12 WORKING WITH DRAWING RECTANGLES M-13 WORKING WITH DRAWING RECTANGLES M-14 WORKING WITH CIRCLES AND ELLIPSES M-14 WORKING WITH DRAWING ARTS M-15 WORKING WITH POLYGONS M-16 WORKING WITH POLYGONS M-17 WORKING WITH STATUS WINDOW M-18 WORKING WITH AUDIO CLIP INTERFACE

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