

Java SE 7 Programming

Duration: 5 Days

What you will learn

This Java SE 7 Programming training explores the core Application Programming Interfaces (API) you'll use to design object-oriented applications with Java. Expert Oracle University instructors will teach you how to write database programs with JDBC through interactive instruction and hands-on exercises.

Learn To:

Create Java technology applications with the latest JDK 7 Technology and the NetBeans Integrated Development Environment (IDE).

Enhance object-oriented thinking skills using design patterns and best practices.

Identify good practices in the use of the language to create robust Java applications.

Manipulate files, directories and file systems.

Write database applications using standard SQL queries through JDBC.

Create high-performance, multi-threaded applications.

Create classes that subclass other classes, extend abstract classes and program with interfaces.

Properly use exceptions and the Collections framework.

Develop applications that manipulate files, directories and file systems.

Benefits to You

Taking this course will help you boost the productivity, communication and collaboration of your organization. At the same time, you'll understand how to reduce the cost of application ownership through executing more efficient development and deployment techniques. Finally, having this course under your belt will help you maintain your edge by staying current with the global standard for developing networked applications.

Earn a Well-Respected Java SE 7 Programmer Certification

You can use this course to further develop your skills with the Java language. Enrolling in this course will also prepare you for and increase your chances of passing the Oracle Certified Professional, Java SE 7 Programmer Exam.

Audience

Developer

J2EE Developer

Java Developer

Java EE Developer

Related Training

Required Prerequisites

Understand object-oriented principles

Basic understanding of database concepts and SQL syntax

Have completed the Java SE 7 Fundamentals course, or experience with the Java language - can create, compile and execute programs

Experience with at least one programming language

Java SE7 Fundamentals

Course Objectives

Perform multiple operations on database tables, including creating, reading, updating and deleting using JDBC technology

Process strings using a variety of regular expressions

Create high-performing multi-threaded applications that avoid deadlock

Localize Java applications

Create applications that use the Java Collections framework

Implement error-handling techniques using exception handling

Implement input/output (I/O) functionality to read from and write to data and text files and understand advanced I/O streams

Manipulate files, directories and file systems using the JDK7 NIO.2 specification

Apply common design patterns and best practices

Create Java technology applications that leverage the object-oriented features of the Java language, such as encapsulation, inheritance, and polymorphism

Execute a Java technology application from the command line

Course Topics

Java Platform Overview

Introductions

Course Schedule

Java Overview

Java Platforms

OpenJDK

Licensing

Java in Server Environments

The Java Community Process

Java Syntax and Class Review

- Simple Java classes
- Java fields, constructors and methods
- Model objects using Java classes
- Package and import statements

Encapsulation and Polymorphism

- Encapsulation in Java class design
- Model business problems with Java classes
- Immutability
- Subclassing
- Overloading methods
- Variable argument methods

Java Class Design

- Access modifiers: private, protected and public
- Method overriding
- Constructor overloading
- The instanceof operator
- Virtual method invocation
- Polymorphism
- Casting object references
- Overriding Object methods

Advanced Class Design

- Abstract classes and type generalization
- The static and final modifiers
- Field modifier best practices
- The Singleton design pattern
- Designing abstract classes
- Nested classes
- Enumerated types

Inheritance with Java Interfaces

- Java Interfaces
- Types of Inheritance
- Object composition and method delegation
- Implementing multiple interfaces
- The DAO design pattern

Generics and Collections

- Generic classes and type parameters
- Type inference (diamond)
- Collections and generics
- List, set and Map
- Stack and Deque

String processing

- String manipulation with StringBuilder and StringBuffer
- Essential String methods

Schedule will be announced very shortly 3/2/2015

DT:03:02:2015

METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY, ABIDS, HYDERABAD
DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING
ORACLE WORK FORCE DEVELOPMENT PROGRAMME
LIST OF STUDENTS

II YR ECE			
1	J AKILESH REDDY	JAVA SE 7 PROGAMMING	J. Akilesh
2	SHABAAZ MUNAWAR KHAN	JAVA SE 7 PROGAMMING	Shabaz
3	G APOORVA	JAVA SE 7 PROGAMMING	G. Apoorva
4	B RUTVIJ REDDY	JAVA SE 7 PROGAMMING	B. Rutvij
5	SAYED ALI MOHAMMAD RAFI RAZVI	JAVA SE 7 PROGAMMING	S. Rafi
6	J SRIRAM	JAVA SE 7 PROGAMMING	J. Sriram
7	A VINAY KUMAR	JAVA SE 7 PROGAMMING	A. Vinay
8	C SHESHANK	JAVA SE 7 PROGAMMING	C. Sheshank
III YR ECE			
9	P VIJAYA LAKSHMI	JAVA SE 7 PROGAMMING	P. Vijaya
10	G THRINATH REDDY	JAVA SE 7 PROGAMMING	G. Thrinath
11	PRIYANKA SHIRODKAR	JAVA SE 7 PROGAMMING	P. Priyanka
12	MARY TEJASWI	JAVA SE 7 PROGAMMING	M. Tejaswi
13	CH APOORVA	JAVA SE 7 PROGAMMING	Ch. Apoorva
14	V ASHISH KUMAR	JAVA SE 7 PROGAMMING	V. Ashish
15	BHEEMA FATHIMA	JAVA SE 7 PROGAMMING	B. Fathima
16	SAMEER M THAKKER	JAVA SE 7 PROGAMMING	S. Sameer
17	AMRUTA MUNGIKAR	JAVA SE 7 PROGAMMING	A. Amruta
18	G AKHILA	JAVA SE 7 PROGAMMING	G. Akhila
19	BABU KHAN	JAVA SE 7 PROGAMMING	B. Babu
20	VENKAT SAIKRISHNA	JAVA SE 7 PROGAMMING	V. Venkat
21	VENUGOPAL	JAVA SE 7 PROGAMMING	V. Venugopal
22	A VINOD KUMAR	JAVA SE 7 PROGAMMING	A. Vinod Kumar
23	M VIJAY KUMAR	JAVA SE 7 PROGAMMING	M. Vijay Kumar
24	D RAVITEJA REDDY	JAVA SE 7 PROGAMMING	D. Raviteja
25	SAMAY	ORACLE DATABASE 11G :PROGRAMMING WITH PL/SQL 2.0	S. Samay
26	ABDUL HASHIM	ORACLE DATABASE 11G :PROGRAMMING WITH PL/SQL 2.0	A. Hashim
IV YR ECE			
27	C MEHER DATTA SOURABH	JAVA SE 7 PROGAMMING	C. Meher Datta
28	M ALEKHYA	JAVA SE 7 PROGAMMING	M. Alekhya
29	CH SUCHITRA	JAVA SE 7 PROGAMMING	Ch. Suchitra
30	EMMANUEL JENNINGS	JAVA SE 7 PROGAMMING	E. Jennings
31	C K KARTEEK	JAVA SE 7 PROGAMMING	C. K. Karteek
32	D GOUTHAM REDDY	JAVA SE 7 PROGAMMING	D. Goutham
33	M MOUNIKA	JAVA SE 7 PROGAMMING	M. Mounika
34	KEDAREESHWARI	JAVA SE 7 PROGAMMING	K. Kedareeswari
35	B MANOJ	JAVA SE 7 PROGAMMING	B. Manoj
36	J SHIVAKUMAR	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	J. Shivakumar
37	B SAIKRISHNA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	B. Saikrishna
38	G PRASHANTH REDDY	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	G. Prashanth
39	K SOWMYA REDDY	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	K. Sowmya
40	B RUPA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	B. Rupa
41	G SHASHI TEJA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	G. Shashi Teja

42	P KIRAN	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	P.Kiran
43			
43	L RAGHAVENDRA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	L.Raghu
44	MVN PHANITEJA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	M.V.N.Phaniteja
45	M MADHU GOUD	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	M.Madhu
46	M SAI PRIYA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	M.Saipriya
47	A RONY SAMUEL	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	A.Rony
48	S BHUPAL REDDY	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	S.BhupalReddy
49	P SAI BABA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	P.SaiBaba
50	R SAI KIRAN	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	R.SaiKiran
51	ANUP PATEL	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	Anup
52	MOHAMMAD AZHAR	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	M.Azhar
53	M MAMATHA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	M.Mamatha
54	K PUNITHA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	K.Punita
55	G AKHILA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	G.Akhila
56	P SRINIVASA REDDY	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	P.SrinivasReddy
57	G SOWMYA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	G.Sowmya
58	M SHESHI DEEP	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	M.Sheshi
59	B SURESH BABU	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	B.Suresh
60	D VARALAXMI	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	D.Varalaxmi
61	B PRIYANKA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	B.Priyanka
62	B VIDYULATHA	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	B.Vidyulatha
63	SAI KISHAN KAMBLE	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	S.Kishan
64	L AJAY KUMAR	ORACLE DATABASE 11G:NEW FEATURES FOR ADMINISTRATORS	L.Ajay

1. PL/ SQL:

02 NOS.

(Feb 16 to 21 - 2015)

2. ORACLE DB NEW FEATURES FOR ADMN:28 NOS.

(March 2 to 7 - 2015)

3. JAVA SE 7 PROGAMMING:

34 NOS.

(March 2 to 4 - 2015)

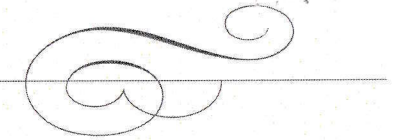
7 day each


OWFD-COORDINATOR


HOD-ECE

3/2/15
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

AWARD OF COMPLETION



EMMANUEL JENNINGS PARATAIAH

HAS SUCCESSFULLY COMPLETED

Java SE 7 Programming

AS PART OF ORACLE'S WORKFORCE DEVELOPMENT PROGRAM AT

Methodist College of Engineering & Technology



JOHN HALL
SENIOR VICE PRESIDENT
ORACLE CORPORATION

Shailaja E

2015-02-21

50260206

INSTRUCTOR NAME

DATE

ENROLLMENT ID