

OJAV-2 - JAVA SE: PROGRAMMING I ED 2

Categoria: **Java**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Java



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Sviluppatore



Produttore:
Oracle

OBIETTIVI

- Write Java code that uses variables, arrays, conditional and loop constructs of achieve program objectives
- Identify modular programming principles
- Access and create static fields and methods
- Encapsulate a class using access modifiers and overloaded constructors
- Manipulate numeric, text, and string data using appropriate Java operators
- Set environment variables to allow the Java compiler and runtime executables to function properly
- Create simple Java classes and use object references to access fields and methods in a class
- Demonstrate polymorphism by implementing a Java interface
- Handle a checked exception in a Java application
- Use a Predicate Lambda expression as the argument to a method
- Define and implement a simple class hierarchy that supports application requirements

PREREQUISITI

Nessun Prerequisito

CONTENUTI

What is a Java Program

- Key features of the Java language
- Java technology and development environment
- Running and testing a Java program

Creating a Java Main class

- Java classes
- The Main method
- Adding a Main method

Data in the Cart

- Introducing variables
- Working with strings

- Working with numbers
- Manipulating numeric data

Managing Multiple Items

- Working with conditions
- Using IF statements
- Working with a list of items
- Processing a list of items

Describing Objects and Classes

- Working with objects and classes
- Defining fields and methods
- Declaring, instantiating, and initializing objects
- Working with object references
- Doing more with arrays

Manipulating and Formatting the Data in Your Program

- Using the String class
- Using the Java API docs
- Using the StringBuilder class
- More about primitive data types
- More numeric operators
- Promoting and casting variables

Creating and Using Methods

- Using methods
- Method arguments and return values
- Static methods and variables
- How arguments are passed to a method
- Overloading a method

Using Encapsulation

- Access control
- Encapsulation
- Overloading constructors

More on Conditionals

- Relational and conditional operators
- More ways to use IF/ELSE constructs
- Using switch statements
- Using the Netbeans debugger

More on Arrays and Loops

- Working with dates
- Parsing the args array
- Two-dimensional arrays
- Alternate looping constructs
- Nesting loops
- The ArrayList class

Using Inheritance

- Overview
- Working with subclasses and superclasses
- Overriding methods in the superclass
- Creating and extending abstract classes

Using Interfaces

- Polymorphism
- Polymorphism in the JDK foundation classes
- Using interfaces
- Local-variable type inference
- Using the List interface
- Introducing Lambda expressions

Handling Exceptions

- Overview
- Propagation of exceptions
- Catching and throwing exceptions
- Handling multiple exceptions and errors

Deploying and Maintaining the Soccer Application

- Packages, JARs, architecture
- Application modification and requirements

Understanding Modules

- The Module system
- JARs
- Module declarations
- Modular JDK

JShell

- Testing code
- JShell basics
- JShell in an IDE

INFO

Materiale didattico: Materiale didattico ufficiale Oracle in formato digitale. Il materiale didattico è compreso nel prezzo sia per i corsi a Calendario sia per quelli Dedicati.

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)