



Certificate Course

CORE JAVA

Course Contents

Introduction to Java programming

- The Java Virtual Machine
- Variables and data types
- Conditional and looping constructs
- Arrays

Object-oriented programming with Java Classes and Objects

- Fields and Methods
- Constructors
- Overloading methods
- Garbage collection
- Nested classes



Inheritance

- Overriding methods
- Polymorphism (Dynamic and Static Binding)
- Making methods and classes final
- Abstract classes and methods
- Interfaces



Exception handling with try-throw-catch-finally constructs

- The Exception class
- Application of try catch block
- Application of finally and final keywords

The Object Class

- Cloning objects
- Strings
- String conversions

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Working with types: Wrapper classe

- Enumeration interface

Packages

- Package access
- Documentation comments

Applets

- Configuring applets
- Applet capabilities and restrictions

Basics of AWT and Swing

- Configuring applets
- Difference between CUI and GUI
- Swing (various components and containers)
- Event handling
- Applet through JApplet
- Develop GUI using Netbeans Drag n drop feature

Threads

- Thread class
- Runnable Interface
- Synchronization

The I/O Package

- InputStream and OutputStream classes
- Reader and Writer classes



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Basic concepts of networking

- Working with URLs
- Concepts of UR

Database connectivity with JDBC

- Java security
- Type of drivers
- Basics of SQL
- Executing SQL using statement
- Executing SQL using preparedstatement



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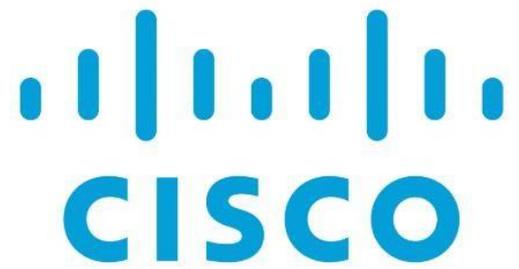
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- Core Python with Django
- .Net with framework
- Core PHP with Framework/CMS
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- Software Testing
- Ethical Hacking and Cyber Security

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