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SMARTBTR INSTITUTE OF TECHNOLOGY INTERNATIONAL



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Course Title : Core JAVA Programming

Course Duration: 5 months

Course Fees: INR. : Rs. 5,000

Eligibility: 10th passed

Prerequisites: No prior programming or web development experience required.

TOPICS

1. Getting Started
2. Introducing JAVA
3. Data-Types and Variables
4. Strings
5. Arrays
6. Operators
7. Loop
8. Statements
9. Classes and Objects
10. Methods
11. Package Access Modifiers
12. Object Oriented Programming (OOPS) Concept
13. Pattern Programming

Session-1: Getting Started

- Introduction of java, JDK History -> Origin -> JVM -> Benefit of JAVA , Platform Independent Programming), Use Case of Java And Success of Java Programming(Which kind of applications made with java programe),Installations Tools and IDE, Execute JAVA program in local machine and IDE with JDK.

Session-2: Introducing JAVA

- Data Types, Variables, JAVA Operators, Typecasting, JAVA Control Structure (Control structure, if else, switch, break, continue, while, do while, for loop.)
- Practical examples of Control structure and break statement.
- JVM -The heart of Java Java's Magic Bytecode.

Session- 3: Data Type, Variables

- Data types, primitive, non-primitive data-type
- Java variables

Session- 4: Strings

- Mutable, immutable strings

Session- 5: Arrays

- Array -> (Creating and initializing array. Iterating array elements), Java Arrays (1D,2D) ->Array in java (Creating two dimensional array and iterating.)

Session-6: Operators

- Omments, arithmetic operators, relational operators, logical operators

Session-7: Loop

- While loop, for loop, for each loop

Session-8: Conditional Statements

- If-else, logical or not

Session-9: Pattern Programming:

- Star pattern, custom pattern

Session-10: Classes, Object

- Java Object Structure, Class, object, Getter and Setter, Package and Class members access:- public, private, protected and default, Access Modifiers, Java Constructor, Default and Parameterized constructor

Session-11: Object Oriented Programming (OOPS) Concept

- Encapsulation, inheritance, polymorphism, abstraction

Session-12: Package Access Modifiers, java keyword

- This,super

Session-13: Java Methods/functions

- Method and method that takes parameters, Java Function return types (Static, Void, Default){ Static members (static variables and static method)}, Overloading ,Overriding java functions , Return statement(Use of return statement in practical applications)



**Contact Us For
More Info**



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