

Course Outline.

Introduction

- Programming overview and its activities.
- Machine code, assembly languages and high-level programming languages.
- Programming environment.
- Java history and features.
- Object-oriented key concepts

Object-Oriented Programming -OOP

- OOP characteristics.
- Applicability of OOP its strong point and limitations.
- Concepts of OOP.

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Java Programming - I

- Writing Java programs.
- Compile Java programs.
- Run Java programs.
- Use of variables in Java programs.
- User Inputs in Java.
- Math operators in Java

Java Programming- II

- Character strings.
- Primitive data.
- The declaration and use of variables.
- Expressions and operator precedence.
- Data conversions.
- Accepting input from the user.

Java Programming- III

- IF and IF-ELSE conditional statement.
- SWITCH conditional statement.
- FOR loop and FOR EACH loop.
- WHILE loop.
- DO-WHILE loop.



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Java Programming- IV

- Array declaration and use.
- Bounds checking and capacity.
- Arrays that store object references.
- Variable length parameter lists.
- Multidimensional arrays.

Java Programming- V

- Features of Java 8 and how they are implemented.
- Java platforms: SE, EE, ME
- Java technologies for web applications
- Java frameworks for web applications
- Spring MVC framework.

Java Programming- VI

- Database connections.
- Insert data into a table in a database.
- Update data values in the database.
- Select rows from a table
- Delete data from the database.



Java Programming- VII

- HTML forms creation.
- JSP pages creation.
- Java EE usage.
- Creation of backend applications.
- Creation of frontend applications.
- Deployment of java web application on Heroku servers.