* Introduction
  + The java programming language.
* History of java.
* The platform (JRE & JDK).
* Features of java.
* The way java works.

1. **Installation**

* Installing java on computer.
* Setting up environment variables.
* Verifying java installation.

1. **Getting Started**

* Writing Simple java program & understanding.
* Compiling Program.
* Running Program.
* Java IDE’s (eclipse, net Beans)

1. **Object Orientation concepts**

* Class
* Object
* Encapsulation/Data hiding.
* Abstraction
* Inheritance
* Polymorphism

1. **Variables**

* Instance Variables
* Local Variables
* Class Variables / Static Variables

1. **Data Types**

* Primitive Data types
* Reference Data types

1. **Operators**

* Arithmetic Operators
* Relational Operators
* Bitwise Operators
* Logical Operators
* Assignment Operators

1. **Flow Control**

* Decision making statement
  + If statement
  + If-else statement
  + Switch statement
* Looping statement
  + While statement
  + Do-while statement
  + For statement
* Branching statement
  + Break statement
  + Continue statement
  + Return statement

1. **Exceptions**

* Java Exceptions Overview
* Making Custom (User Defined) Exceptions
* Checked exceptions
* Runtime exceptions
* Errors

1. **Strings**
2. **I/O Files**
3. **Generics & Collections**
4. **Inner classes**
5. **Threads**

* Overview of Thread
* Life Cycle of A Thread
* Creating Threads