

Course Content JAVA (1.0)

→ General discussion:

- ◆ What is a program?
- ◆ What is a compiler?
- ◆ What is the meaning of “Compiling a program”?
- ◆ What is the meaning of “Running a program”?
- ◆ What is terminal?
- ◆ What is IDE (Integrated development environment)
- ◆ What is JAVA?
- ◆ Difference between JDK, JRE, and JVM
- ◆ Writing first java program*
- ◆ Program Structure*
- ◆ Packages and classes

→ Introduction to java:

- ◆ Java class (general idea)
- ◆ Java methods (general idea)
- ◆ Datatypes in java
- ◆ Variables and arithmetic operations
- ◆ Order of precedence
- ◆ Variables, constants and assignment statements
- ◆ Getting input from user
- ◆ Shorthand Operators
- ◆ What is a method?
- ◆ Passing variables to methods.

→ Introduction to conditions in Java:

- ◆ Relational and logical expressions
- ◆ Conditional Operator
- ◆ Selection statements: if, else if
- ◆ Nested statements
- ◆ Switch Case
- ◆ Break

→ Introduction to Strings

- ◆ Strings and characters

- ◆ Casting and converting
- ◆ String class methods

→ Introduction to iteration and looping

- ◆ For-Loop
- ◆ While-Loop
- ◆ Do while loop
- ◆ Break
- ◆ Continue
- ◆ Comments

- Arrays
- OOPs
- Exceptions in Java