



LEARN TO CODE USING JAVA

Unit 1: A brief history about computer and programming languages

Outcomes/Numbering Systems

Computer Programming Language/Description of Software Piracy

Unit 2: Outcomes/Development Life Cycles

Objectives/Development Life Cycles

Basics of Different Styles of Programming/Choosing the Correct Programming Language

Challenges that New Programmers Face/Naming Conventions

Unit 3: Integrated Development Environment

Outcomes/Installing NetBeans for the First Time

Unit 4: Projects Inside The Ide

First Project Creation

Unit 5: Java Programming Language

Outcomes/Reserved Words

Java Programming Language/Java Development Kit (JDK)

Understanding the Code or/Task One

jFrame Form/Task Two

Java Swing Controls/Task Three

Aligning Controls on Form 1/Task Four

Unit 6: Input/Output Of Computer Programs



Outcomes/Computer Organisation

Input, Processing and Output of Computer Program

Variable Declaration and Passing Values

Unit 7: Strings Inside Java Programming Language

Outcomes/Other Controls

Combo Box

Strings in Java Programming Language

Concatenation

Concatenation with Sentence

Concatenation with a Combo Box

Unit 8: Numbers Inside The Java Programming Language

Outcomes/Breakpoints in the IDE

Task One - Part 1 (Addition)

Task One - Part 2 (Addition)

Task Two (Subtraction)

Task Three (Multiplication)

Task Four (Division)

Unit 9: Exception Handling

Outcomes/Exception Handling/The "If" Statement

The "If" Statement - Task One

Introduction to Radio Button Control - Task Two

The Switch Statement - Task Three

Try Catch Statement - Task Four

Try Catch Finally Block - Task Five



Unit 10 : Loops In Java Programming Language

Outcomes/Loops

While Loop - Task One - Part 1

While Loop - Task One - Part 2

For Loop - Task Two

Do While Loop - Task Three

Unit 11: Arrays Inside The Java Programming

Outcomes/Introduction to Arrays/Declaring an Array

String Array - Task One

Number Arrays - Task Two

Unit 12 : Functions | Classes | Sub Procedures/Methods Inside The Java Programming Language

Outcomes/Functions/Sub Procedure without Parameters

Sub Procedure with Paramaters/String Sub Parameters with Parameters - Task Two

Number Sub Procedure with Parameters - Task Three

Functions/Numerical Functions - Task Four

Square Root - Task Five

String Functions - Task Six

Date Time Function - Task Eight

Format the Date Function - Task Nine

Result Compare (Integer and Decimal Data Type) - Task Ten

Unit 13: JFrame/Windows Forms

Outcomes/Windows Forms/Navigation with Windows Forms



Navigation with Windows Forms/Task One

Changing the Colour of a Form - Task Two

Comments - Task Three

Unit 14:

Outcomes/File/Java Input/Output File

Create A File in Java - Task One

Creating a File and Writing an Item/Task Two

Writing and Retrieving an Item - Task Three

Placing the Items into a List Box then Save to a File/Task Four

Writing Items to File from a List Box and Retrieving the Values/Task Five

Moving Lists of Items from one List Box to Another - Task Six

Using Stored Methods/Procedures to Place Code - Task Seven

Unit 15:

Outcomes/Deployment of your Application/Back to Basics - Task One

Creating Jar Package - Task Two

Running the Jar File - Task Three

Downloading Launch4J - Task Four

Creating the Executable File Using Launch4J/Task Five

Opening the Application and Installing JRE on Another PC/Task Six